**HISTORY INFORMATION FOR THE FOLLOWING MANUAL:**

# SERVICE MANUAL

# AX-1X CHASSIS

| MODEL NAME | REMOTE COMMANDER | DESTINATION | CHASSIS NO. |
|---|---|---|---|
| ***KP-46WT520*** | *RM-Y916* | *US/CND/MX* | *SCC-M37B-A* |
| ***KP-51WS520*** | *RM-Y916* | *US/CND/MX* | *SCC-M37C-A* |
| ***KP-57WS520*** | *RM-Y916* | *US/CND/MX* | *SCC-M37A-A* |

## *ORIGINAL MANUAL ISSUE DATE: 7/2004*

☛ **:UPDATED ITEM**

| REVISION DATE | SUBJECT |
|---|---|
| 7/2004 | No revisions or updates are applicable at this time. |
| 10/2004 | Corrected 1-9. Speaker Grille, HA1 Board, and HB2 Board Removal (KP-46WT520 Only) to show correct location of HB2 Board. Replaced Page 14 with Page 14<br>Removed Note from section 2-12-1. Setup For Adjustment. Note is intended for use by the factory during production, and should not be performed by service technicians. Replaced Page 50 with Page 50 |
| 12/2004 | Corrected PN for AC Power Cord for KP-51WS520/57WS520 Models. Replaced Page 104 with Page 104 |
| 12/2004 | Corrected PN for Resistor Bridge on A Board Replaced Page 127 with Page 127 |
| 2/2005 | Updated Table of Contents (Replaced Page 3 with Page 3)<br>Added Caution statement (Replaced Page 5 with Page 5)<br>BH Board introduced due to design change.<br>Added BH Board Removal to Disassembly section (Replaced Page 12 with Page 12)<br>Added BH Board Schematics, PWBs, Exploded View, and Electrical Parts List (Added Pages 93-A through 93-C, Replaced Pages 148-150 with Pages 148-157)<br>Corrected PN for Bottom Cabinet (46) Assy, Corrected/removed items included in Speaker Grill Assembies (Replaced Page 102 & 103 with Page 102 & 103)<br>Added BH Board and A Board (Replaced Page 104 with Page 104)<br>New CRT Coupler Assemblies & Shades introduced for KP-46WT520/51WS520 Affects SNs 8,500,001 and up (Replaced Page 105 with Page 105)<br>Added A Board differences to Electrical Parts List (Replaced Page 111 and 118 with 111 and 118) |
| 8/2005 | Corrected position of CRT Couplers and Shades (Replaced Page 105 with 105) |

## COLOR REAR VIDEO PROJECTION

SONY®

**9-965-968-06**

Self Diagnosis Supported model

# SERVICE MANUAL

# AX-1X CHASSIS

| MODEL NAME | REMOTE COMMANDER | DESTINATION | CHASSIS NO. |
|---|---|---|---|
| ***KP-46WT520*** | *RM-Y916* | *US/CND/MX* | *SCC-M37B-A* |
| ***KP-51WS520*** | *RM-Y916* | *US/CND/MX* | *SCC-M37C-A* |
| ***KP-57WS520*** | *RM-Y916* | *US/CND/MX* | *SCC-M37A-A* |

KP-51WS520

RM-Y916

## COLOR REAR VIDEO PROJECTION

SONY®

9-965-968-06

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# SPECIFICATIONS

**Power Requirements** 120V AC, 60Hz

**Power Consumption (W)**
**In Use (Max)** 235W
**In Standby** Under 1 W

**Inputs/Outputs** **HDMI IN**
**Video**
1080i, 720p, 480p, 480i
**Audio**
Two channel linear PCM 32, 44.1, and 48 kHz, 16, 20, and 24 bit

**Video (IN)**
4 total (1 on front panel)
1Vp-p, 75ohms unbalanced, sync negative

**S Video (IN)**
3 total (1 on front panel)
Y: 1Vp-p, 75ohms unbalanced, sync negative
C: 0.286Vp-p (Burst signal), 75ohms

**Audio (IN)**
7 total (1 on front panel)
500 mVrms (100% modulation)
Impedance:47 kilohm

**Component Video Input**
2 ( $Y,P_B,P_R$)
Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative;
$P_B$: 0.7 Vp-p, 75 ohms;
$P_R$: 0.7 Vp-p, 75 ohms

**Control S (IN/OUT)**
1 total

**Variable/Fixed Audio (OUT)**
More than 408 m Vrms at the maximum volume setting (Variable)
More than 408 m Vrms (Fixed) Impedance (output):2 kilohms

| | KP-46WT520 | KP-51WS520 | KP-57WS520 |
|---|---|---|---|
| **Speaker Output (W)** | 20W x 2 | | |
| **Dimensions (W x H x D)** | | | |
| **mm** | 1086 x 1017 x 609 mm | 1194 x 1280 x 666 mm | 1326 x 1377 x 692 mm |
| **in** | $42^{3/4}$ x 40 x 24 in | 47 x $50^{1/2}$ x $26^{1/4}$ in | $52^{1/4}$ x $54^{1/4}$ x $27^{1/4}$ in |
| **Mass kg** | 61.3 kg | 77.2 kg | 88 kg |
| **lbs** | 135 lbs | 170 lbs | 194 lbs |

**Projection System**
3 picture tubes, 3 lenses, horizontal in-line system

**Picture Tube**
7-inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system.

**Projection Lenses**
High performance, large diameter hybrid lens F1.1

**Antenna**
75 ohm external terminal for VHF/UHF

**Television System**
NTSC, American TV Standard

**Channel Coverage**
VHF: 2-13/UHF: 14-69/CATV: 1-125

**Screen Size (measured diagonally)**
46 inches (KP-46WT520)
51 inches (KP-51WS520)
57 inches (KP-57WS520)

**Supplied Accessories**
Remote Control RM-Y916
Batteries (2) size AA (R6)

**Optional Accessories**
A/V Cable (VMC-810/820/830 HG)
Audio Cable (RKC-515HG)
Component Video Cable (VMC-10/30 HG)
Control S Cable (RK-G69HG)
TV Stand SU-46WT11 (For KP-46WT520 Only)

Design and specifications are subject to change without notice.

# WARNINGS AND CAUTIONS

## CAUTION

☛ These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

## WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.

## ⚠ SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and ⚠ mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

---

## ATTENTION!!

☛ Ces instructions de service sont à l'usage du personnel de service qualifié seulement. Pour prévenir le risque de choc électrique, ne pas faire l'entretien autre que celui contenu dans le Mode d'emploi à moins que vous soyez qualifié faire ainsi.

Afin d'eviter tout risque d'electrocution provenant d'un châssis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.

## ⚠ ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifies par une trame et par une marque ⚠ sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

# SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

8. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

**Leakage Test**

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instructions.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson’s 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

**How to Find a Good Earth Ground**

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

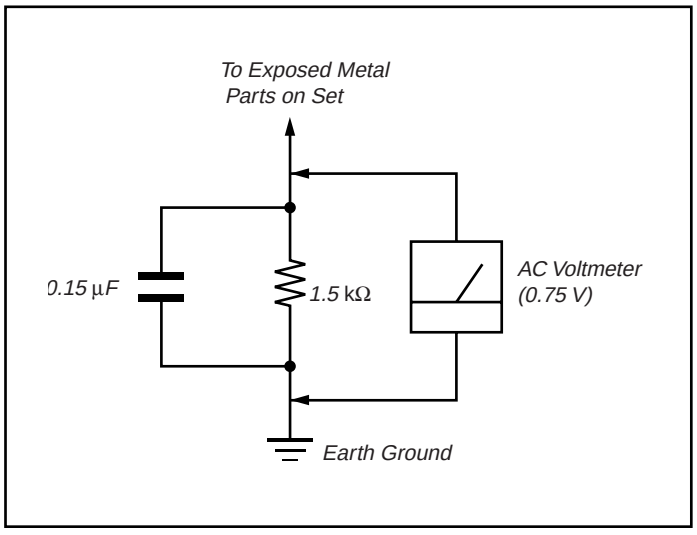



Figure A. Using an AC voltmeter to check AC leakage.

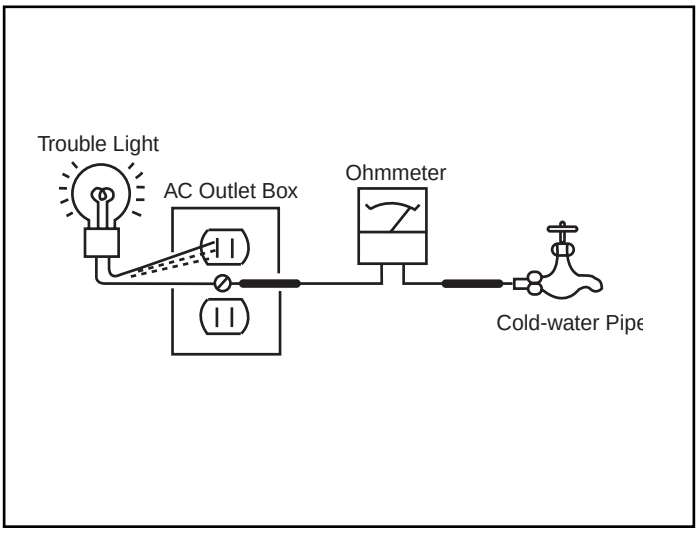



Figure B. Checking for earth ground.

# SELF-DIAGNOSTIC FUNCTION

Self Diagnosis Supported model

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER LED will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

**Diagnostic Test Indicators**

When an error occurs, the STANDBY/TIMER LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.

Results for all of the following diagnostic items are displayed on screen. If the screen displays a "0", no error has occurred.

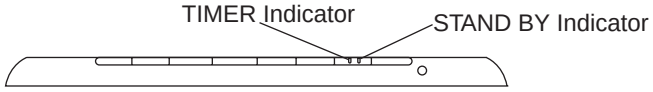
| Diagnostic Item | No. of times STANDBY / TIMER lamp flashes | Display Result | Probable Cause Location | Detected Symptoms |
|---|---|---|---|---|
| Power does not turn on | Does not light | _____ | • Power cord is not plugged in.<br>• Fuse is burned out (F6000). (G Board) | • Power does not come on.<br>• No power is supplied to the TV.<br>• AC Power supply is faulty. |
| +B Overcurrent (OCP)* | 2 times | 2:0 or 2:1 | • H.OUT (Q5001) is shorted. (D Board)<br>• +B PWM (Q5201) is shorted. (D Board) | • Power does not come on.<br>• Load on power line shorted. |
| +B Overvoltage (OVP) | 3 times | 3:0 or 3:1 | • IC6503 is faulty. (D Board) | • Has entered standby mode. |
| Vertical Deflection Stopped | 4 times | 4:0 or 4:1 | • 15V is not supplied. (D Board)<br>• IC5101 is faulty. (D Board) | • Has entered standby mode after Horizontal raster.<br>• Vertical deflection pulse is stopped.<br>• Power line is shorted or power supply is stopped. |
| White Balance Failure (not balanced) | 5 times | 5:0 or 5:1 | • Video OUT (IC9101, IC9201, IC9301) is faulty. (CR, CG, CB Board)<br>• CRT drive (IC452) is faulty. (A Board)<br>• G2 is improperly adjusted.** | • No raster is generated.<br>• CRT cathode current detection reference pulse output is small. |
| LOW +B OCP/OVP (overcurrent/overvoltage)*** | 6 times | 6:0 or 6:1 | • +5 line is overloaded. (A and BM Boards)<br>• +5 line is shorted. (A and BM Boards)<br>• IC303 is faulty. (A Board) | • No picture |
| Horizontal Deflection Stopped | 7 times | 7:0 or 7:1 | • Q5006 is broken (D Board)<br>• IC452 is faulty (A Board) | • No picture |
| Audio Protection | 8 times | 8:0 or 8:1 | • + or - 22V audio supply is not present—Check PS600 & PS601<br>• Audio AMP is damaged IC601 on A Board | • No picture |
| Zero Crossing Detector | 9 times | 9:0 or 9:1 | • D6116 or D6301 is open (G Board) | • No picture |
| HV Protection | 10 times | 10:0 or 10:1 | • Q8014 or Q8013 have shorted replace along with R8051 on D Board<br>• IC8005 is damaged (D Board) | • No picture |

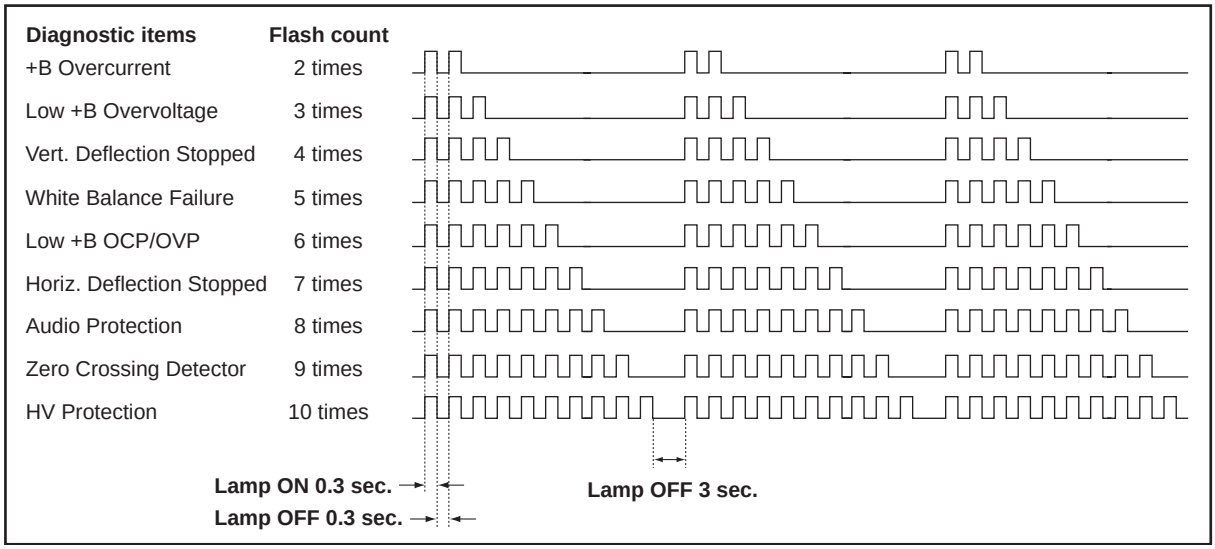
* If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The symptom that is diagnosed first by the microcontroller is displayed on the screen.

** Refer to Screen (G2) Adjustment (Fine Adjustments) in Section 2 of this manual.

*** If STANDBY/STEREO LED flashes six (6) times, unplug the unit and wait 10 seconds before performing the adjustment.

**Display of Standby/Timer LED Flash Count**




**Release of TIMER STAND BY indicator blinking**

The TIMER/STANDBY indicator blinking display is released by turning OFF the power switch on the TV main unit or removing the plug from the power.

**Self-Diagnosis Screen Displays**

In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

**Screen Display Method**

Quickly press the remote command button in the following order from the standby state.

[Display] ⟶ Channel [5] ⟶ Sound Volume* [−] ⟶ Power ON

| SELF DIAGNOSIS | |
|---|---|
| 2: +B OCP | 0 |
| 3: +B OVP | 0 |
| 4: VSTOP | 0 |
| 5: AKB | 1 |
| 6: LOWB | 0 |
| 7: H-STOP | 0 |
| 8: AUDIO | 0 |
| 9: ZCD | 0 |
| 10: HV PROT | 0 |
| 101: WDT | 24 |

Numeral “0” means that no fault was detected.

Numeral “1” means a fault was detected one time only.

*Note that this differs from entering the service mode (sound volume [+] )

**Self-Diagnosis Screen Display**

The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to “ 0 ”.

If the results display is not returned to “ 0 ” it will not be possible to judge a new malfunction after completing repairs.

**Method of Clearing Results Display**

1. Power off (Set to the stand by mode.)
2. [Display] ⟶ Channel [5] ⟶ Sound Volume [+] ⟶ Power ON (Service Mode)
3. Channel [8] ⟶ [ENTER] (Test reset = Factory preset condition)

**Method of Ending Self Diagnosis Screen**

When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

**Self-Diagnosis Function Operation**

**+B overcurrent (OCP)**
Occurs when excessive current flows through R6812. The increase in voltage across Q6803 causes it to turn on which sends a high signal to the micro.

**+B overvoltage (OVP)**
IC6801 detects +B OVP condition and turns on Q6802. This sends a high signal to the micro and also shuts down the AC relay.

**V-STOP**
Occurs when an absence of the vertical deflection pulse is detected by pin 56 of IC452 (A Board). Power supply will shut down when waveform interval exceeds 2 seconds.

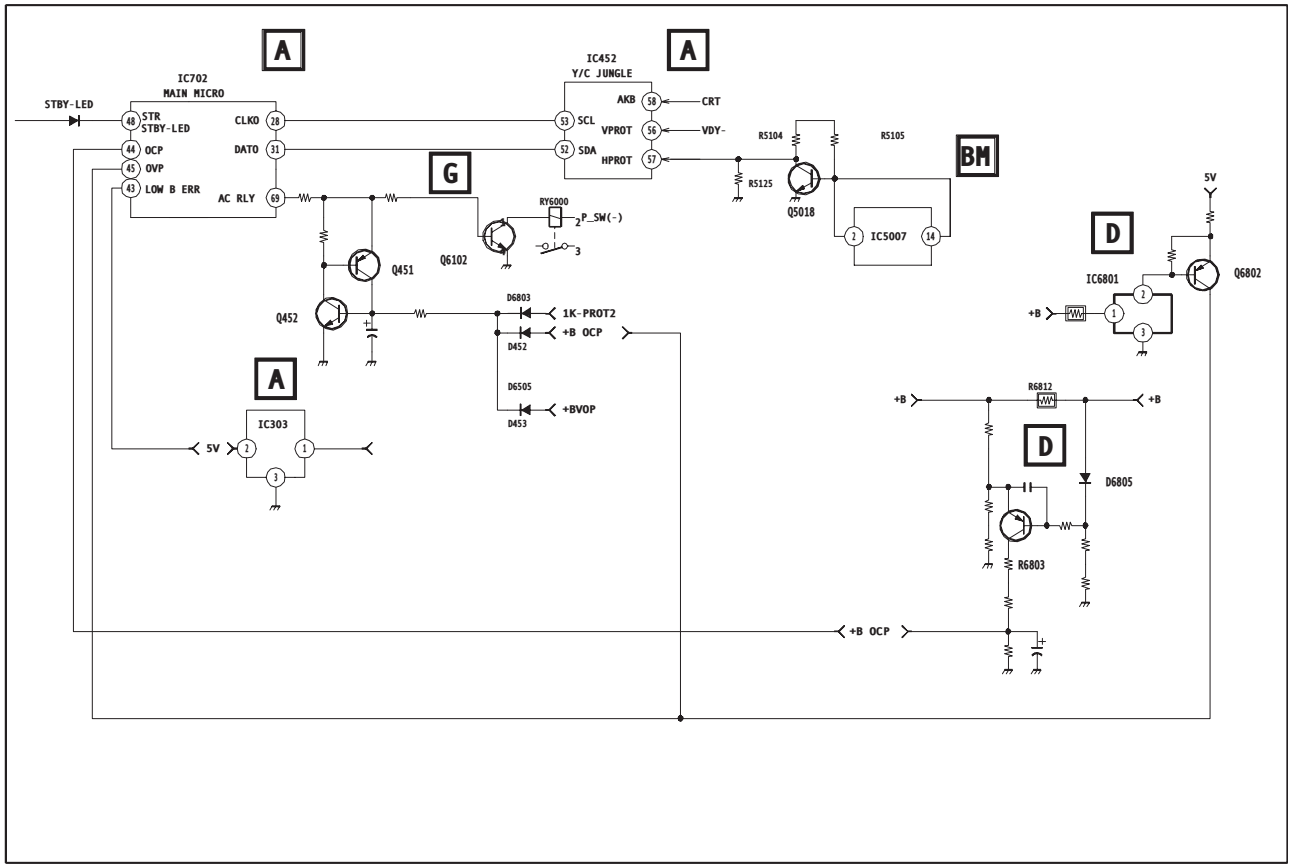
**White Balance Failure**
If the RGB levels* do not balance within 2 seconds after the power is turned on, this error will be detected by IC452 (A Board). TV will stay on, but there will be no picture.

*(Refers to the RGB levels of the AKB detection Ref pulse that detects 1K).

**Low B OCP/OVP**
Occurs when set 5V is out.
Also check for : + 135V line shorted
+ 135V line is going over 145V

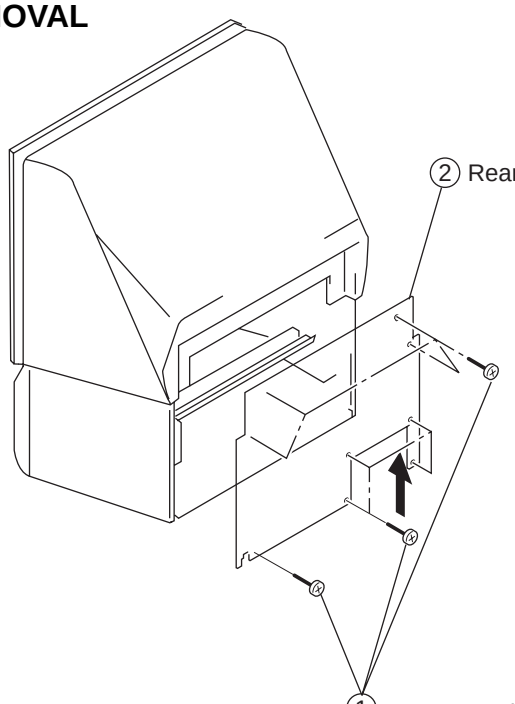
**Horizontal Deflection Stopped**
Occurs when either:
1) a +B overcurrent is detected (Q6803), or
2) IC452 (A Board) is damaged.

**Self-Diagnosis Block Diagram**

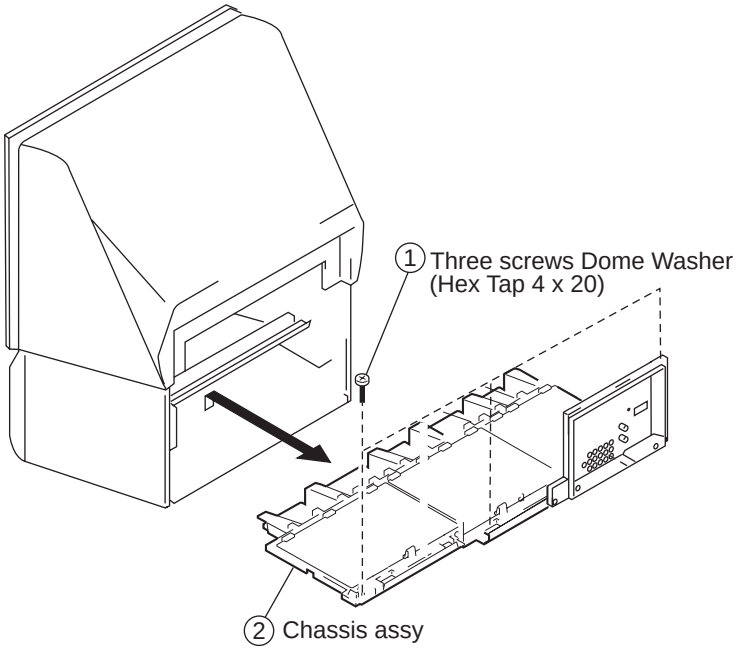


# SECTION 1: DISASSEMBLY

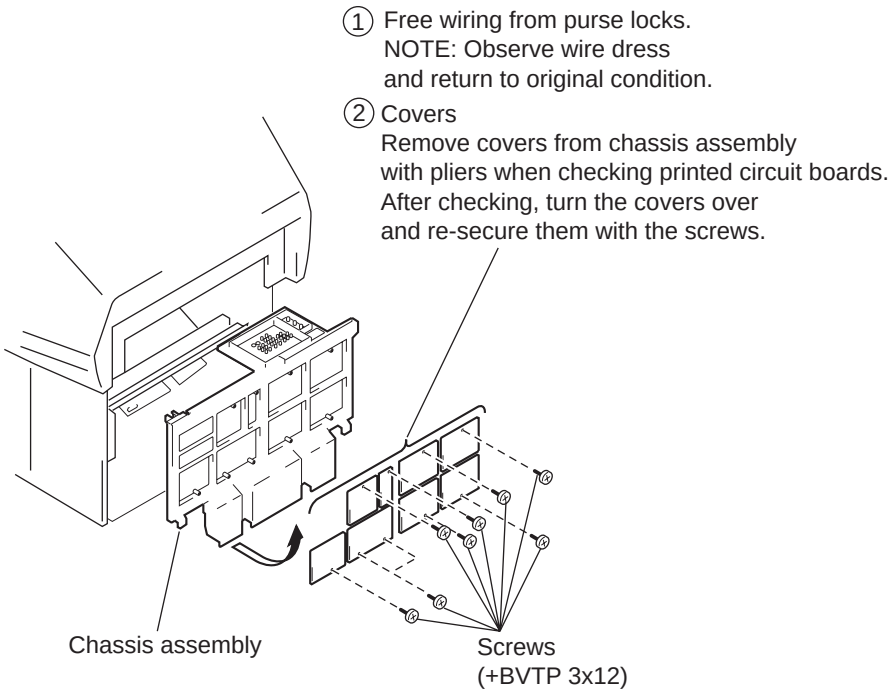
## 1-1. REAR BOARD REMOVAL



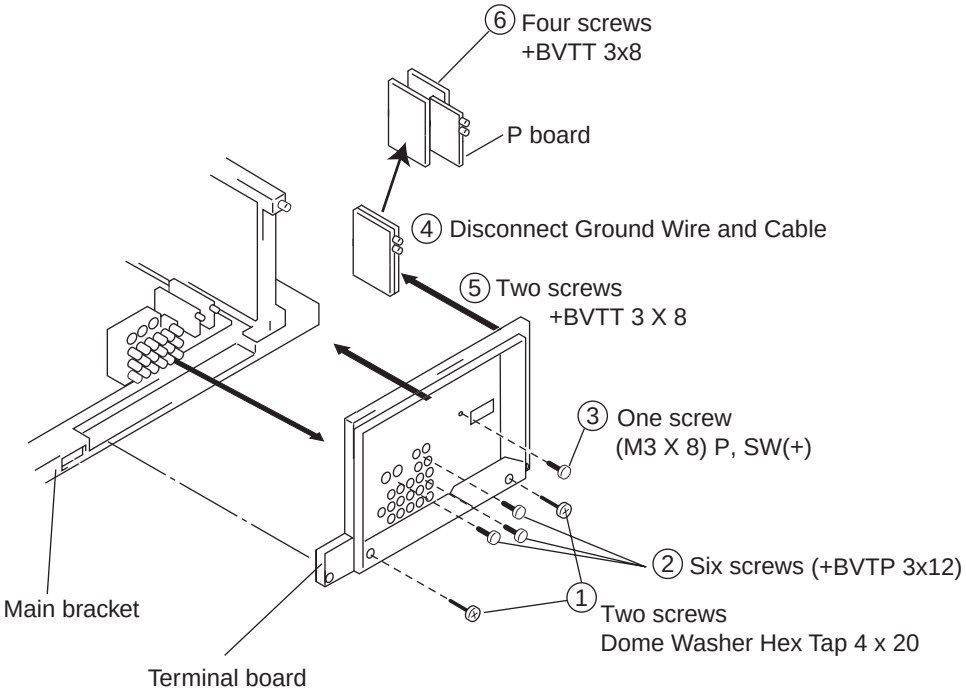

## 1-2. CHASSIS ASSEMBLY REMOVAL



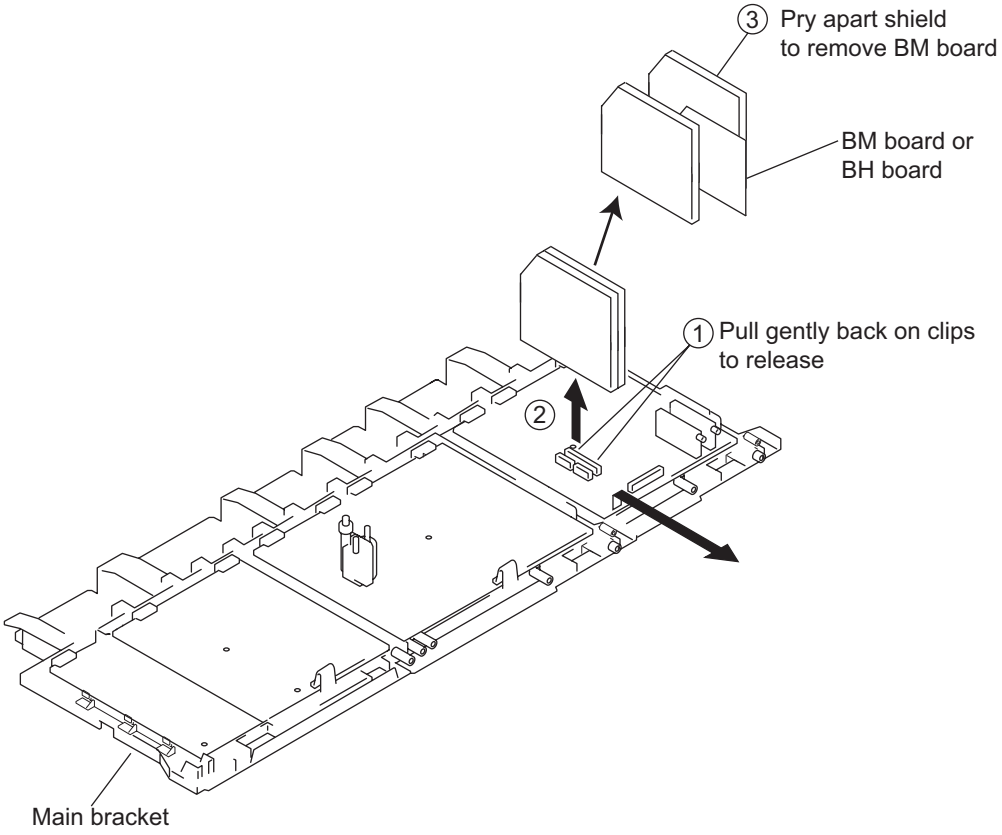
## 1-3. SERVICE POSITION


① Free wiring from purse locks.
NOTE: Observe wire dress
and return to original condition.
② Covers
Remove covers from chassis assembly
with pliers when checking printed circuit boards.
After checking, turn the covers over
and re-secure them with the screws.
Chassis assembly
Screws
(+BVTP 3x12)

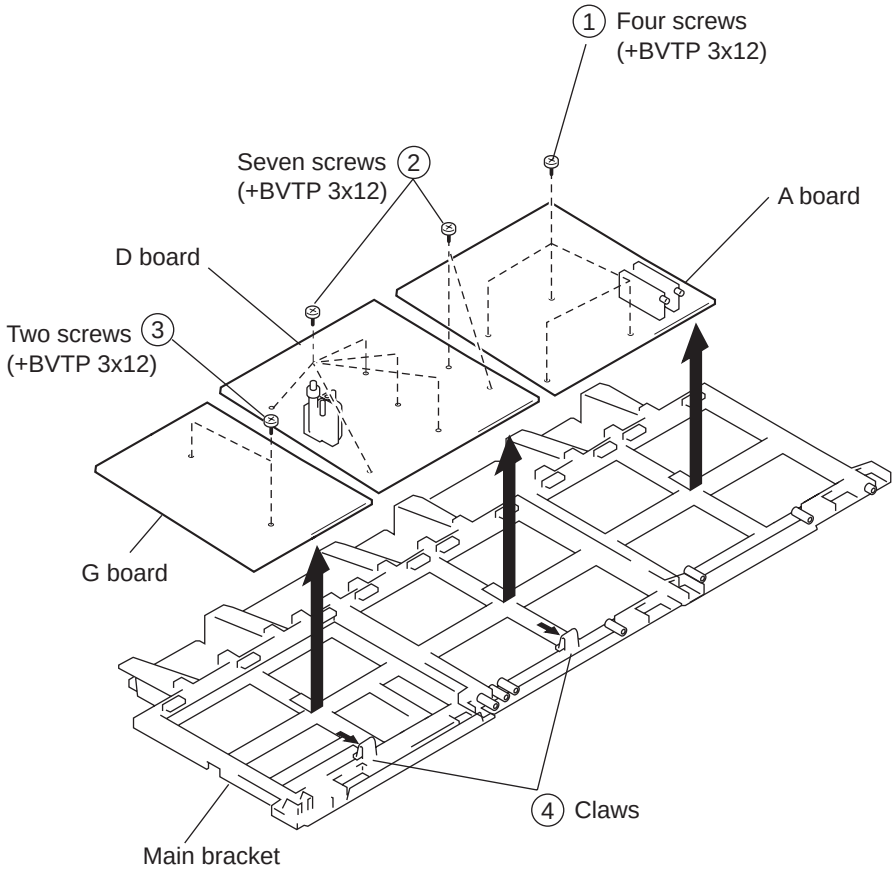
## 1-4. TERMINAL BOARD AND P BOARD REMOVAL



## ☛ 1-5. BM BOARD OR BH BOARD REMOVAL

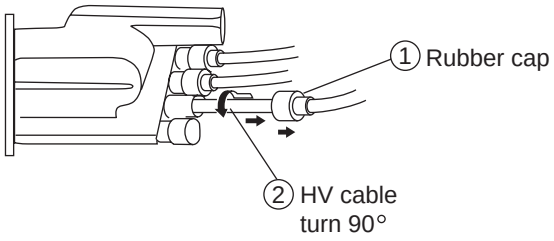



## 1-6. A BOARD, D BOARD, AND G BOARD REMOVAL

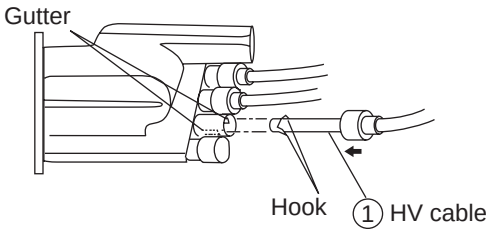


## 1-7. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

(1) Removal

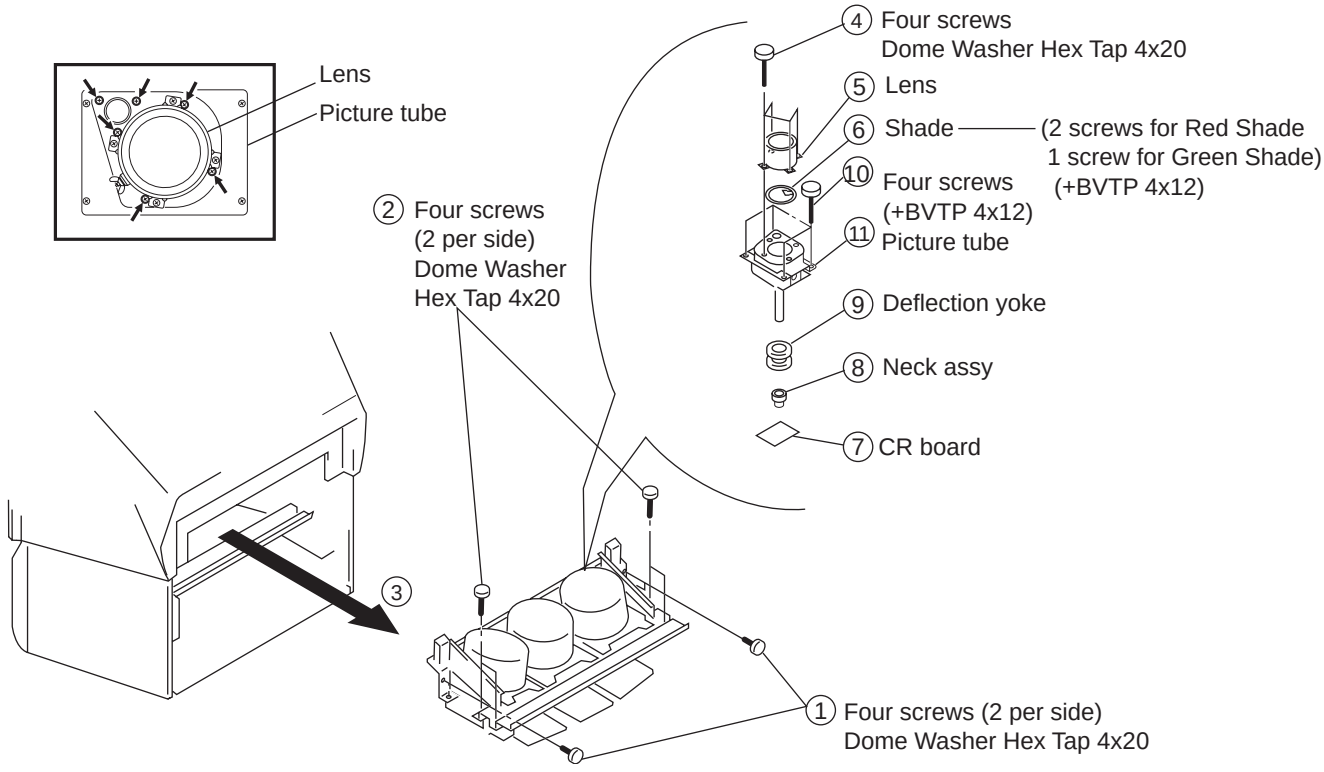



(2) Installation

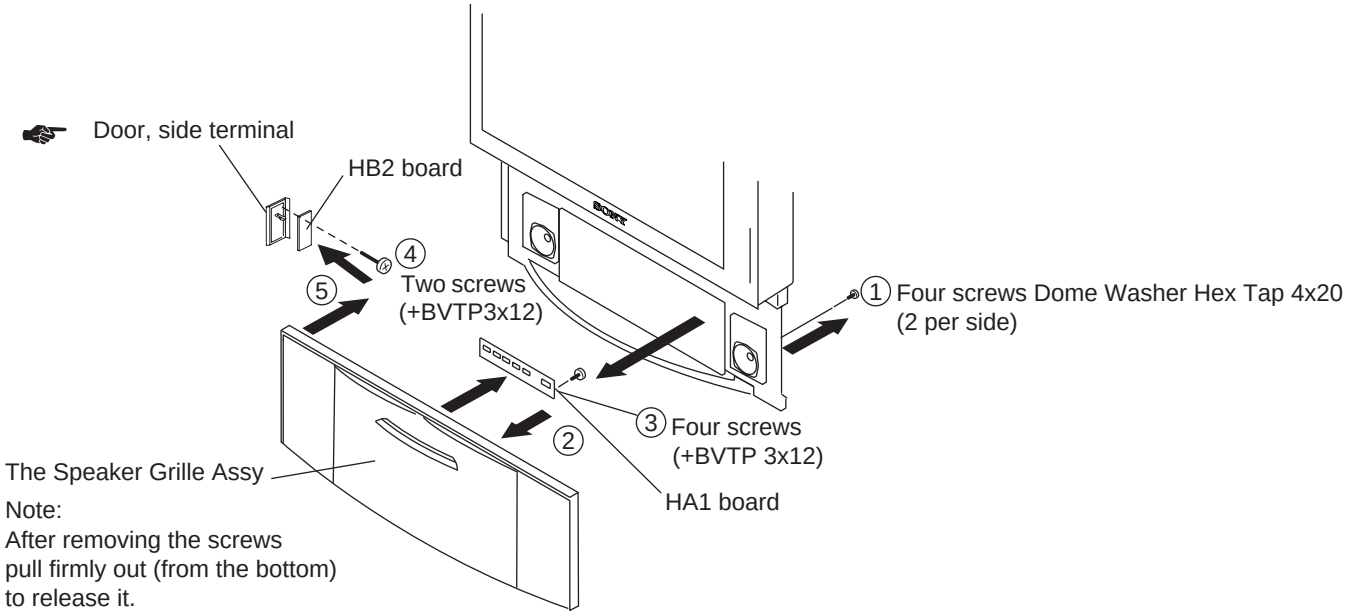



## 1-8. PICTURE TUBE REMOVAL

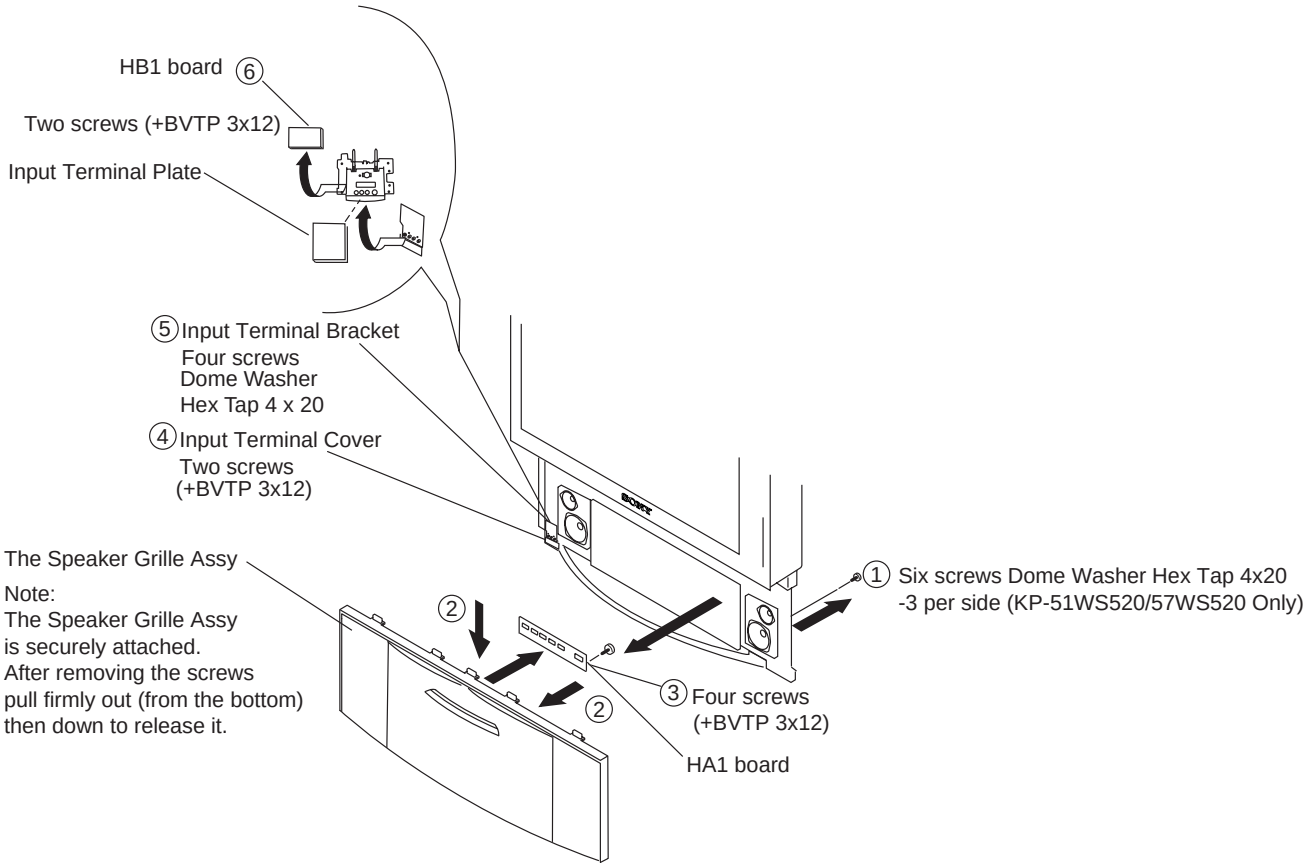
**CAUTION: Removing the arrow-marked screws is strictly prohibited. If removed, it may cause liquid to spill.**



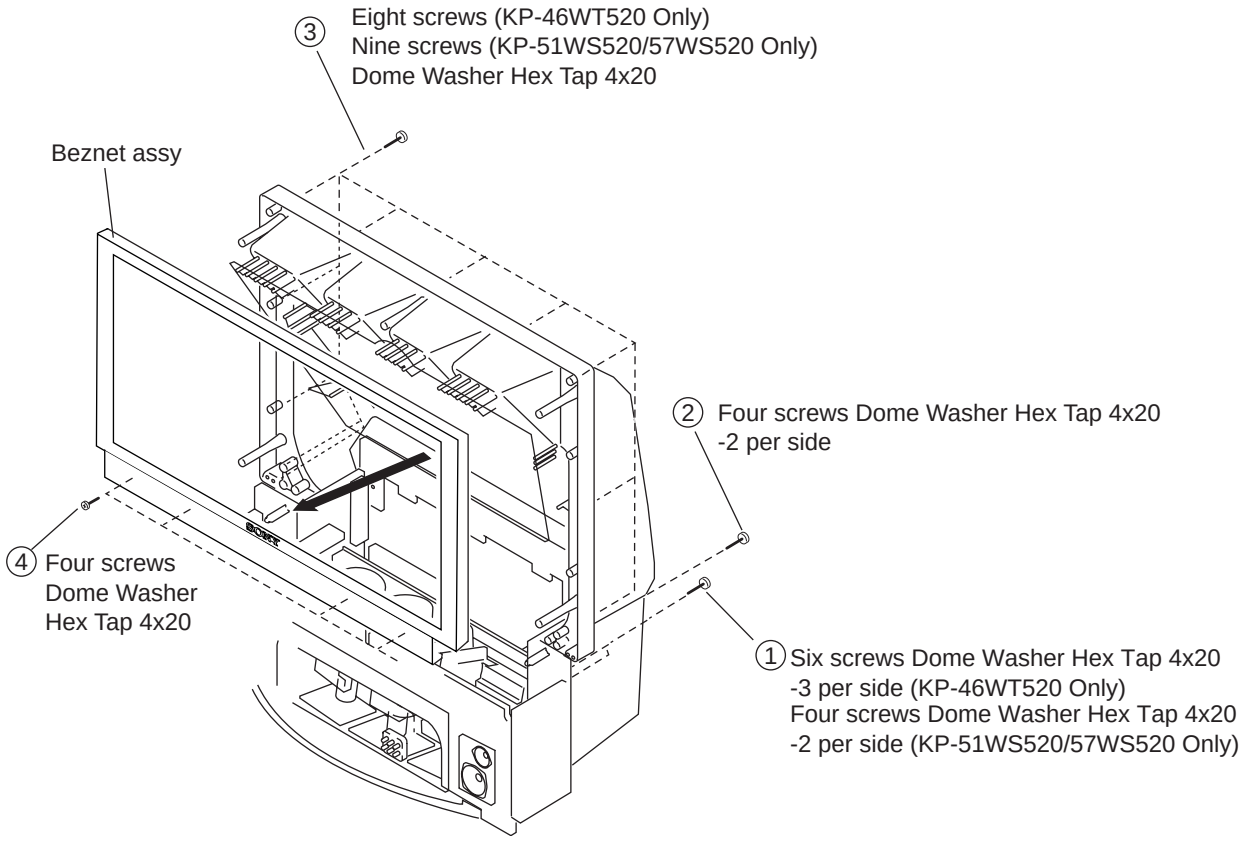
## 1-9. SPEAKER GRILLE, HA1 BOARD, AND HB2 BOARD REMOVAL (KP-46WT520 ONLY)




## 1-10.SPEAKER GRILLE, HA1 BOARD, AND HB1 BOARD REMOVAL (KP-51WS520/57WS520 ONLY)

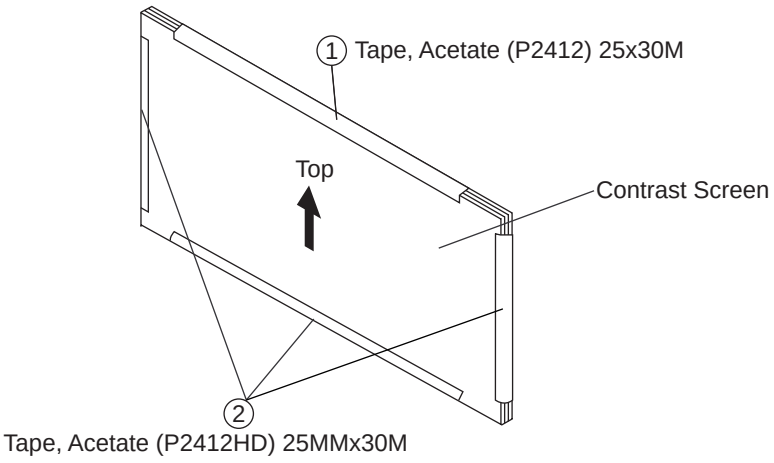


## 1-11.BEZNET ASSEMBLY REMOVAL


③ Eight screws (KP-46WT520 Only)
Nine screws (KP-51WS520/57WS520 Only)
Dome Washer Hex Tap 4x20
Beznet assy
② Four screws Dome Washer Hex Tap 4x20
-2 per side
④ Four screws
Dome Washer
Hex Tap 4x20
① Six screws Dome Washer Hex Tap 4x20
-3 per side (KP-46WT520 Only)
Four screws Dome Washer Hex Tap 4x20
-2 per side (KP-51WS520/57WS520 Only)

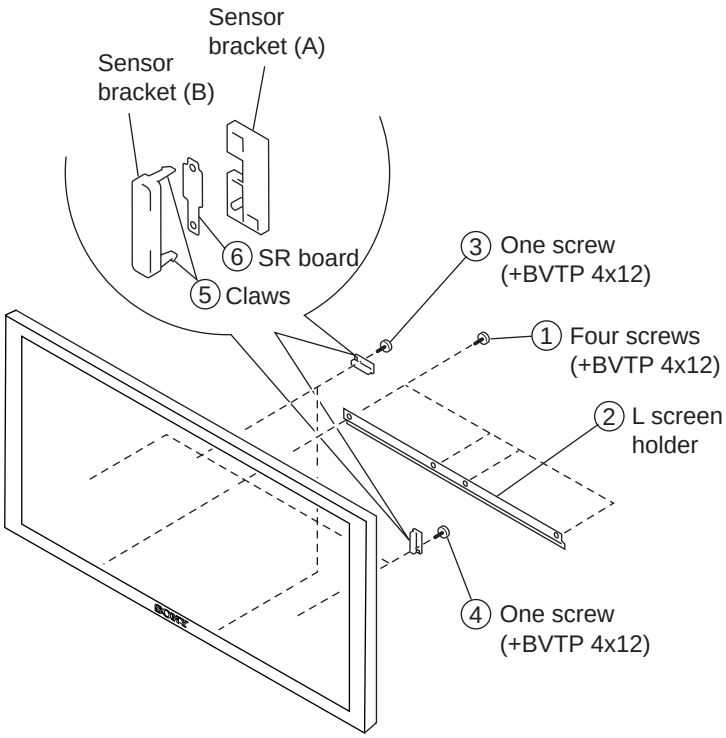
## 1-11-1.SCREEN TAPE METHOD

The following demonstrates the taping method when replacing the Contrast Screen or Diffusion Plates.
For Part Numbers refer to the Miscellaneous section in the back of the manual.



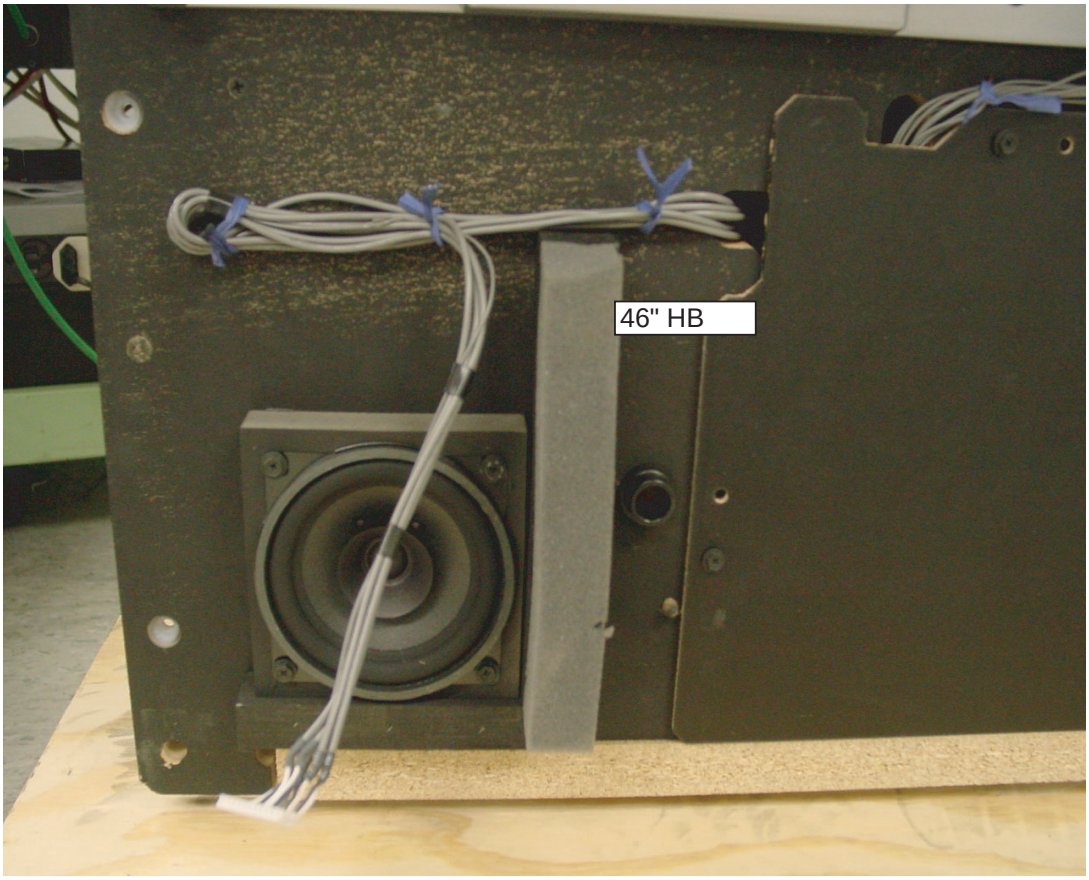
## 1-12.SR BOARD REMOVAL

**The Screen Holder does not need to be removed in order to remove the SR boards.**

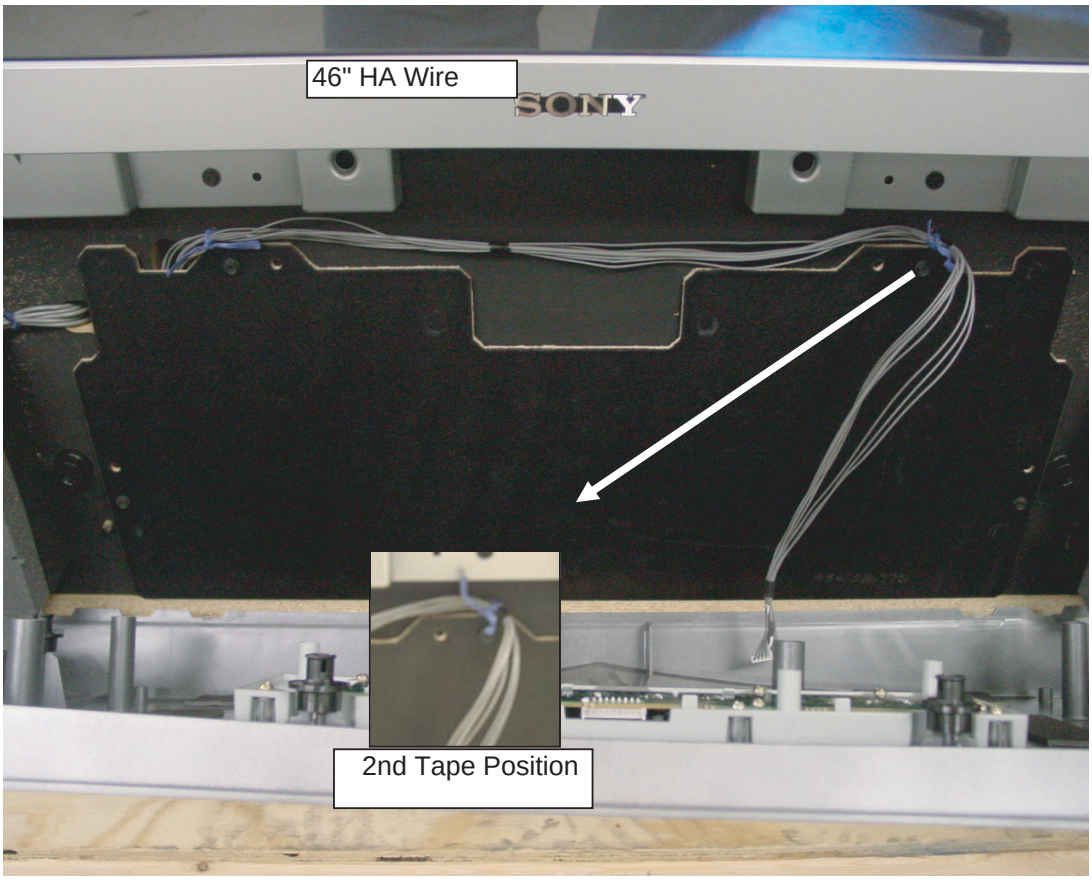


# WIRE DRESSING

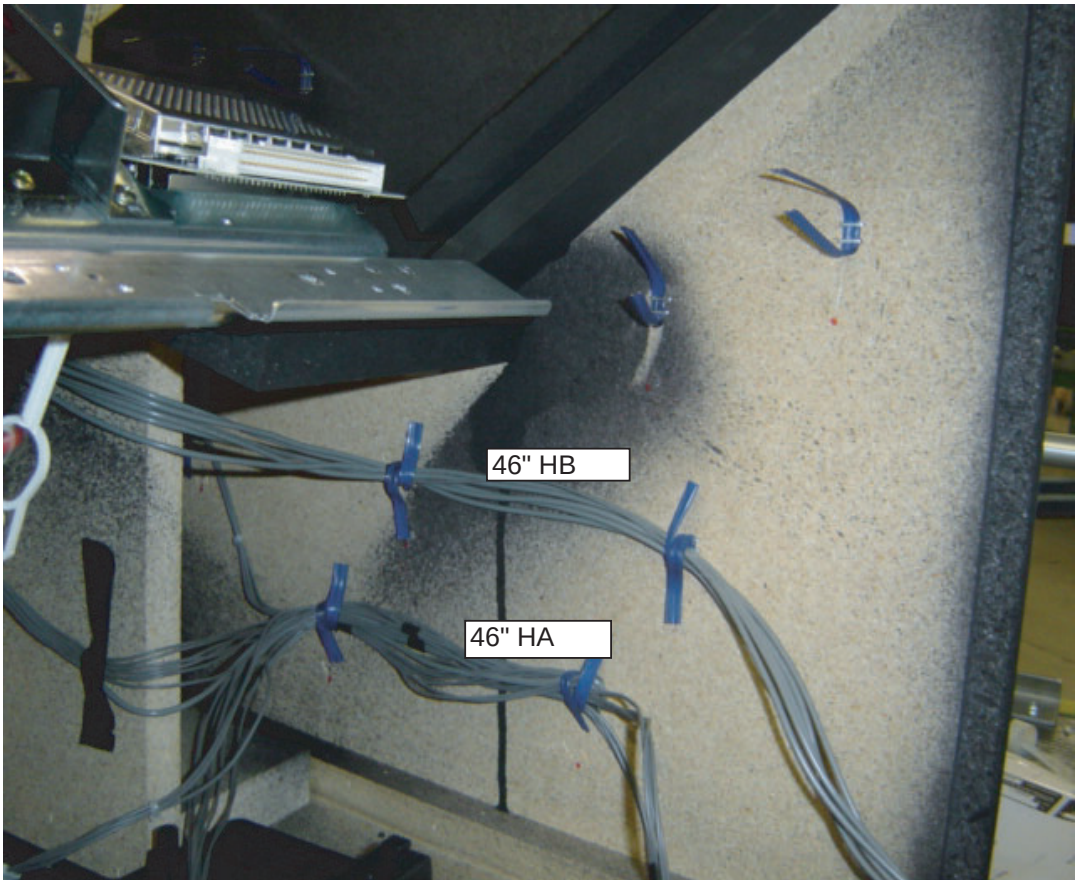
## 46 Cabinet



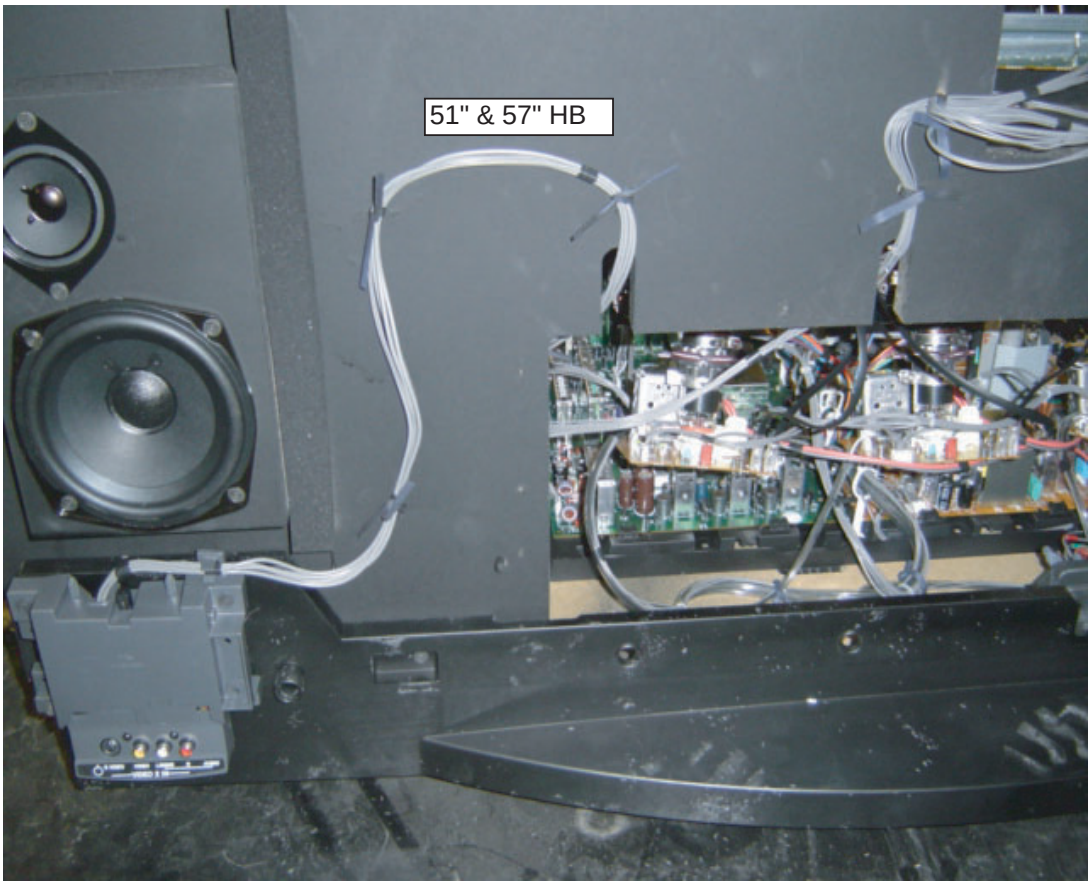
## 46 Cabinet



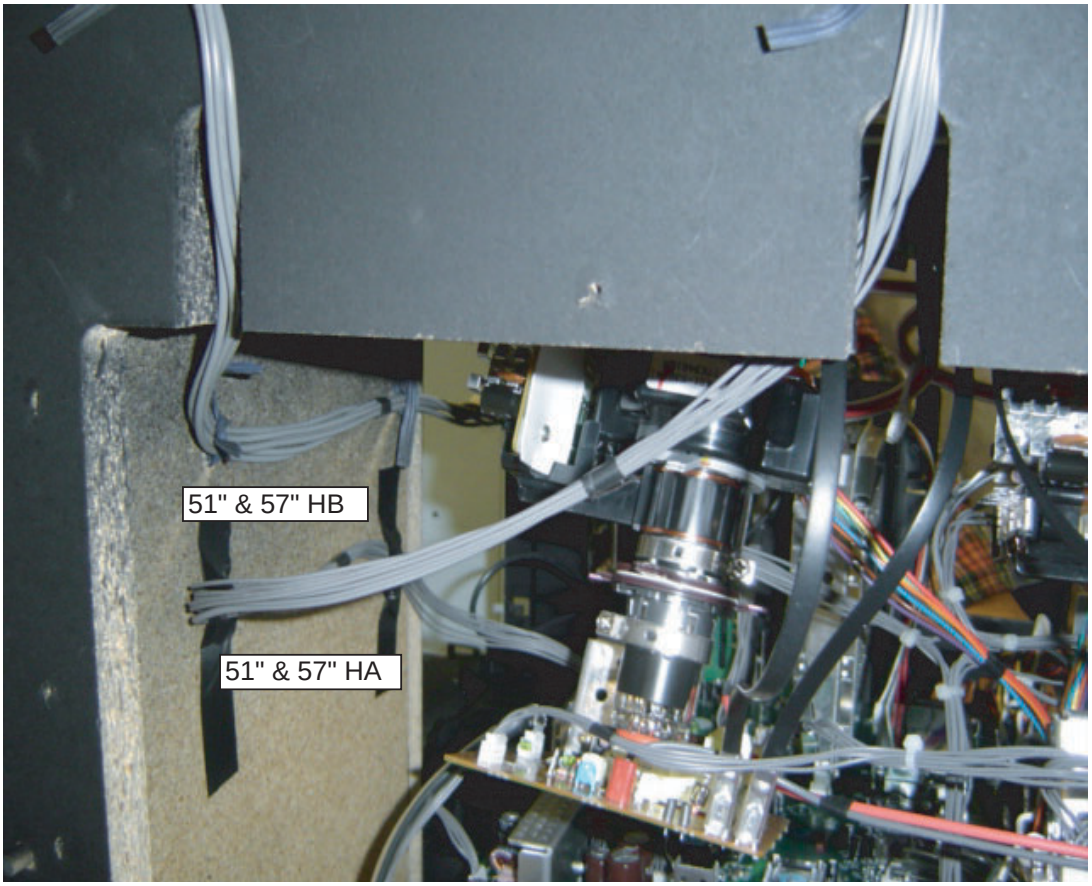

## 46 Cabinet



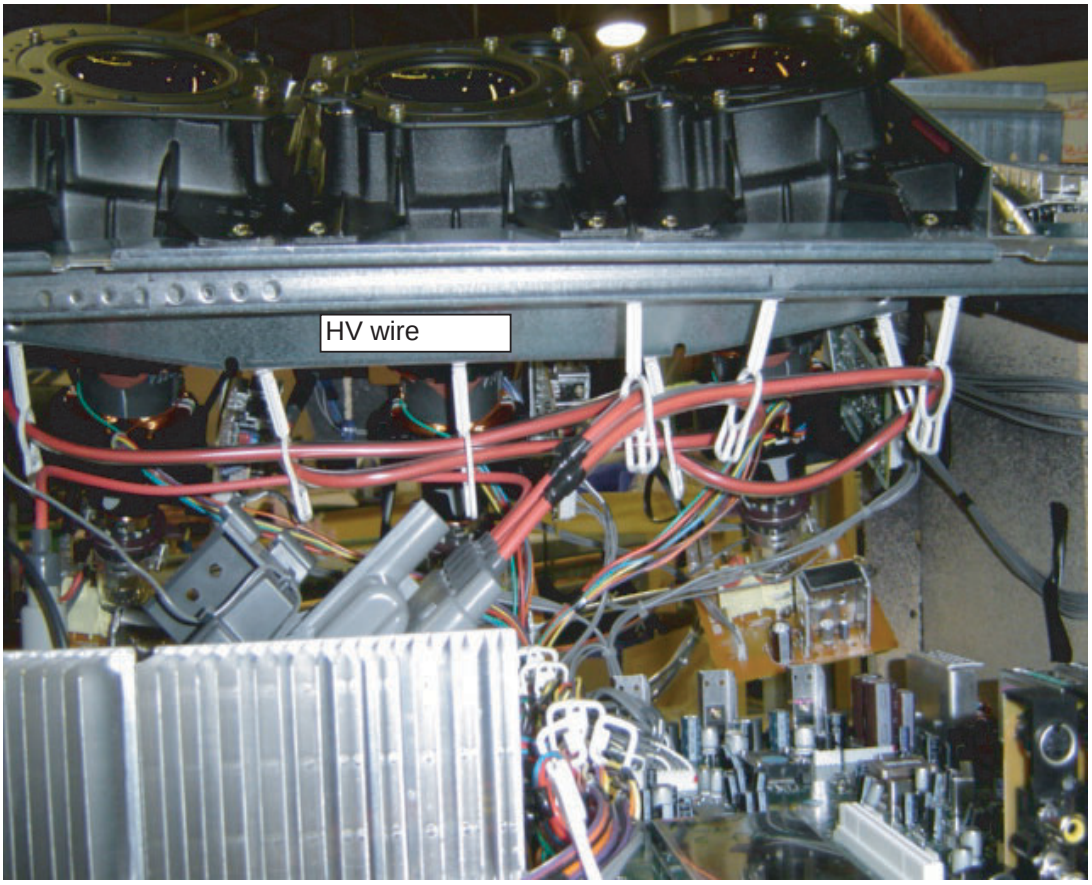
## 51 & 57 Cabinet



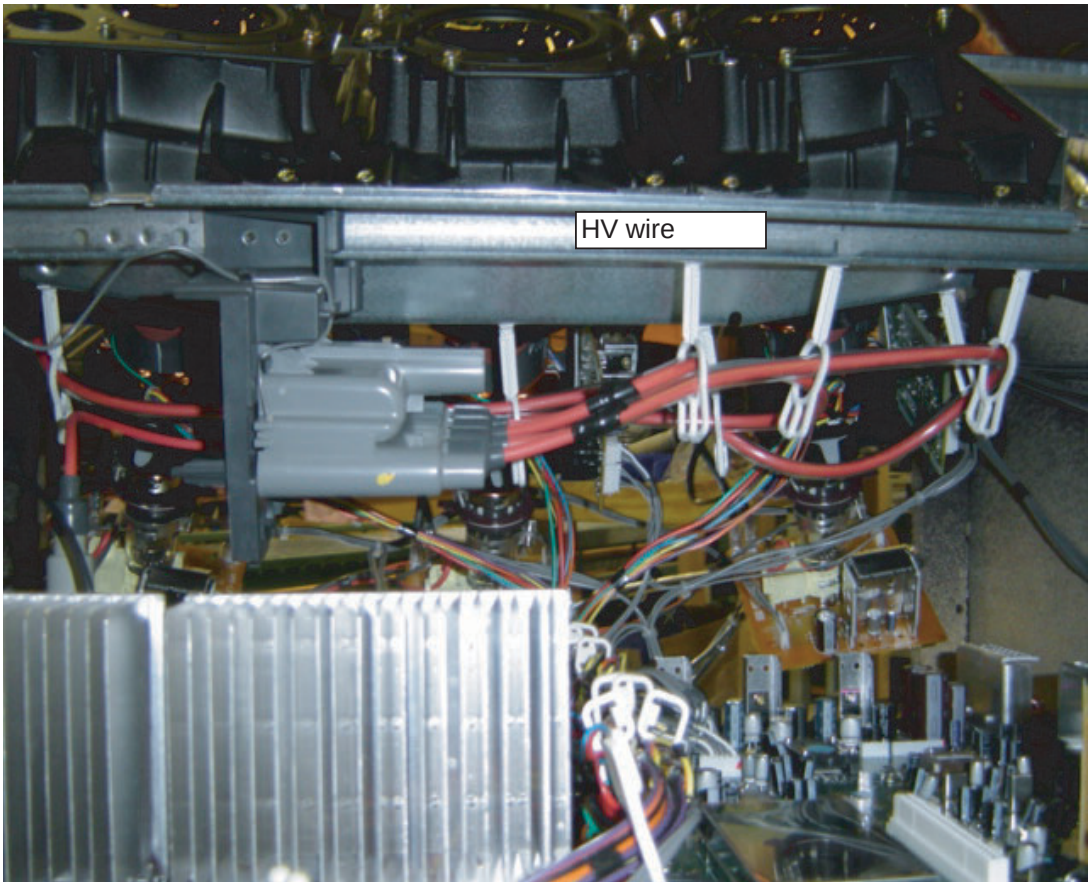

## 51 & 57 Cabinet



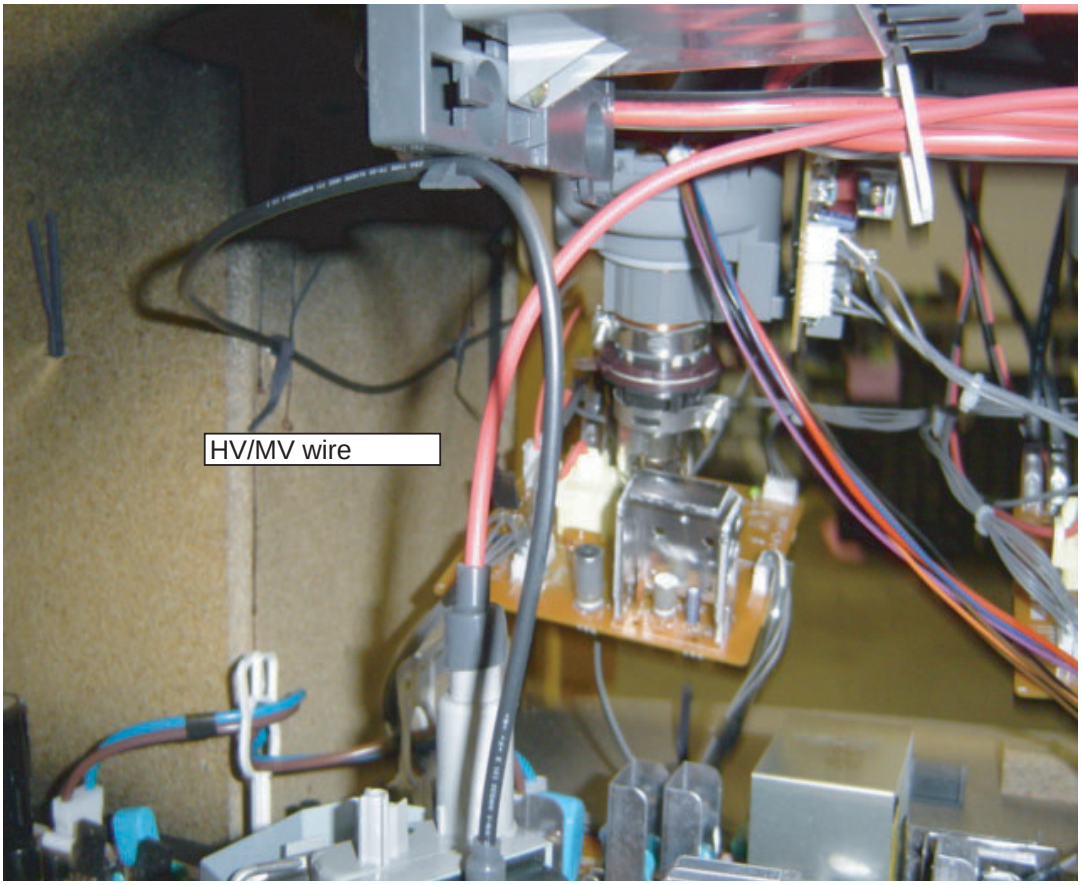
## HV Wire



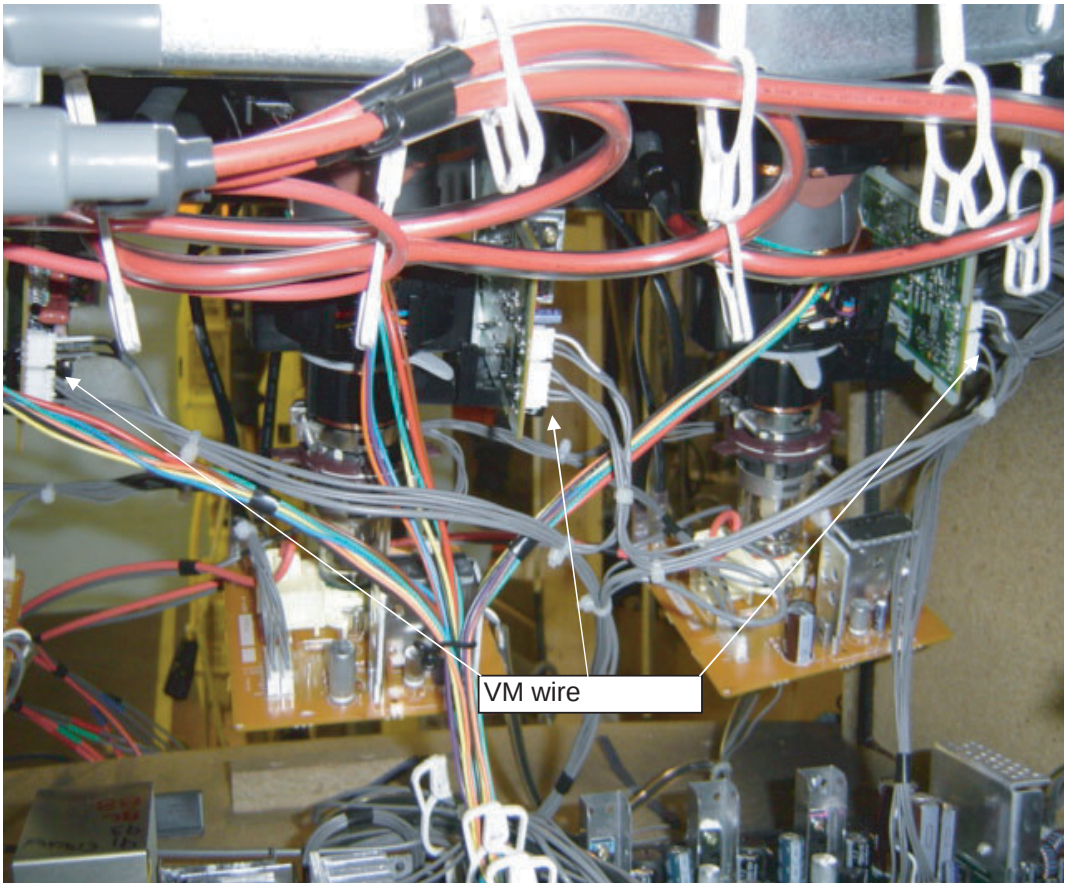

## HV Wire



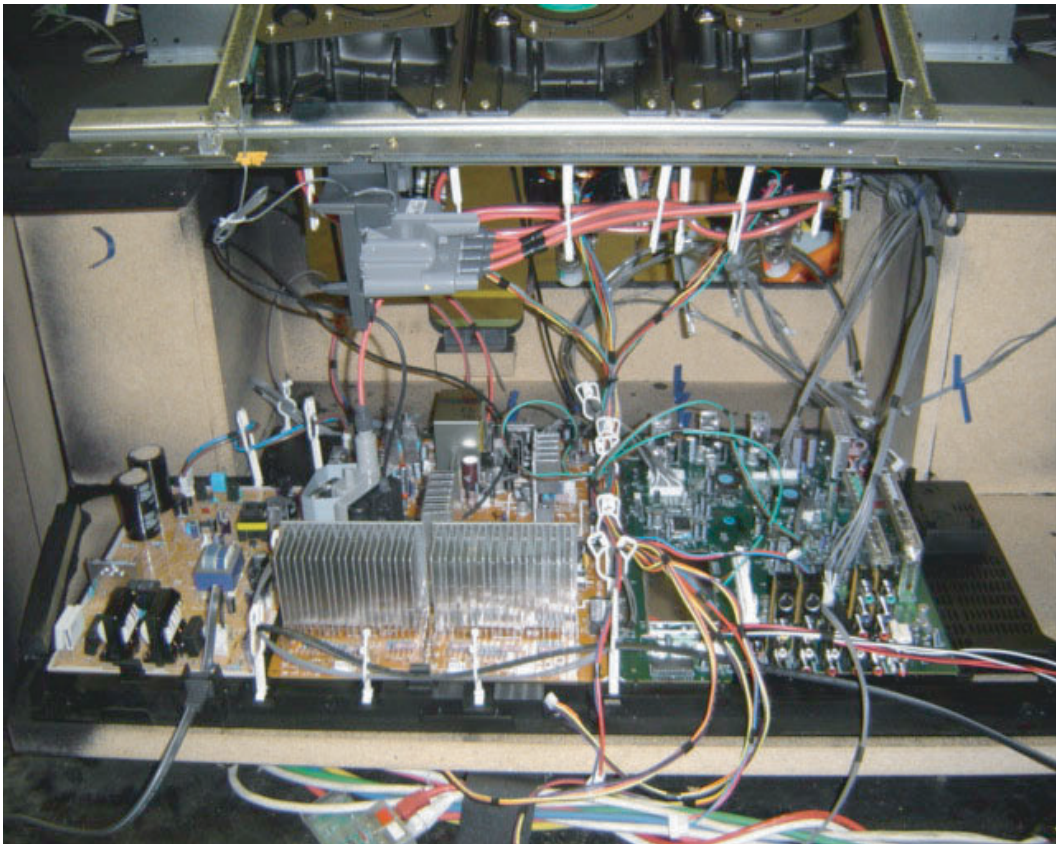
## HV/MV Wire



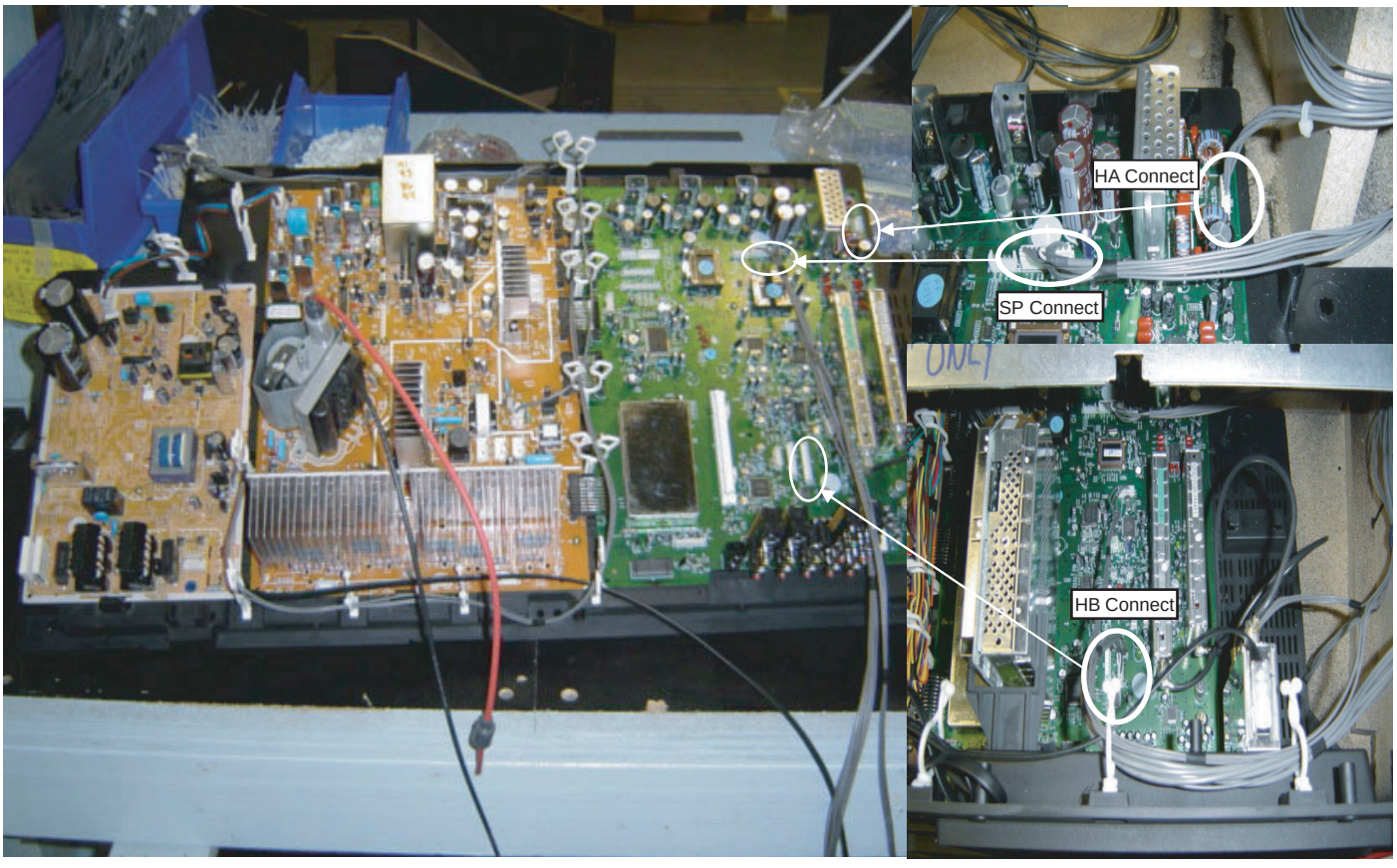

## VM Connect



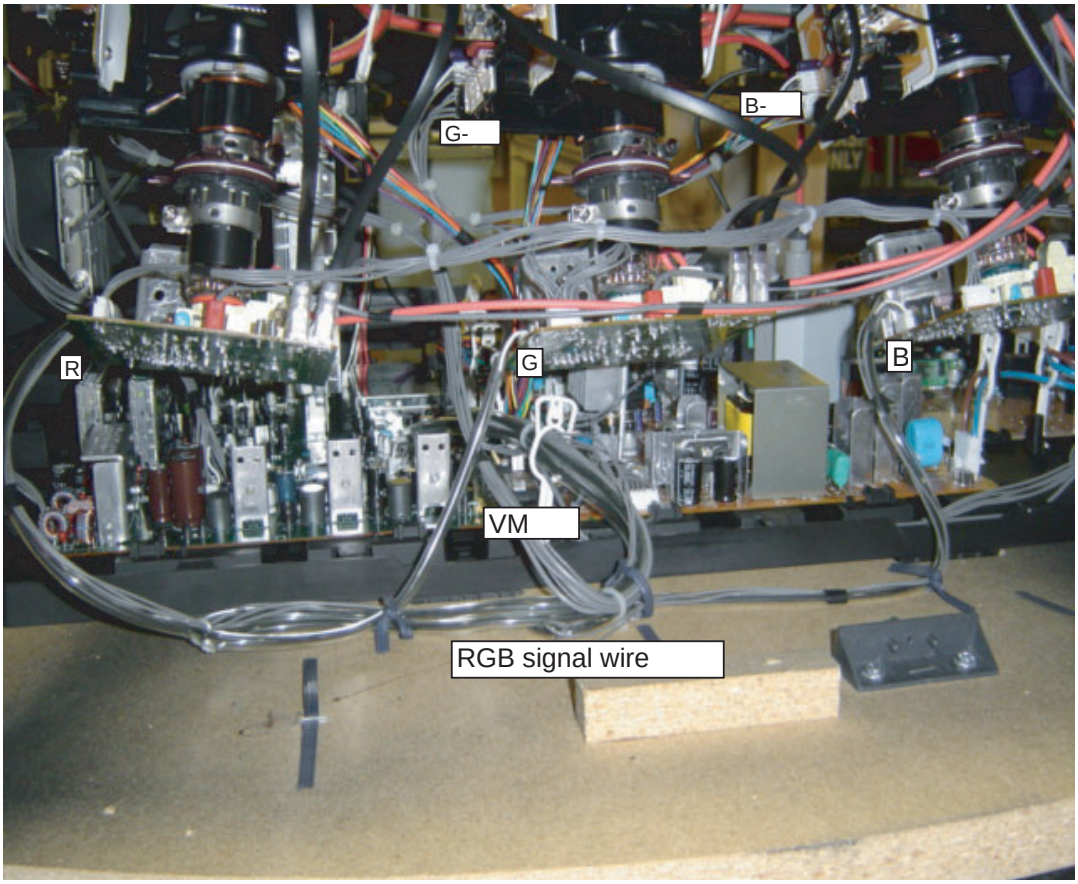
## PWB Block Docking



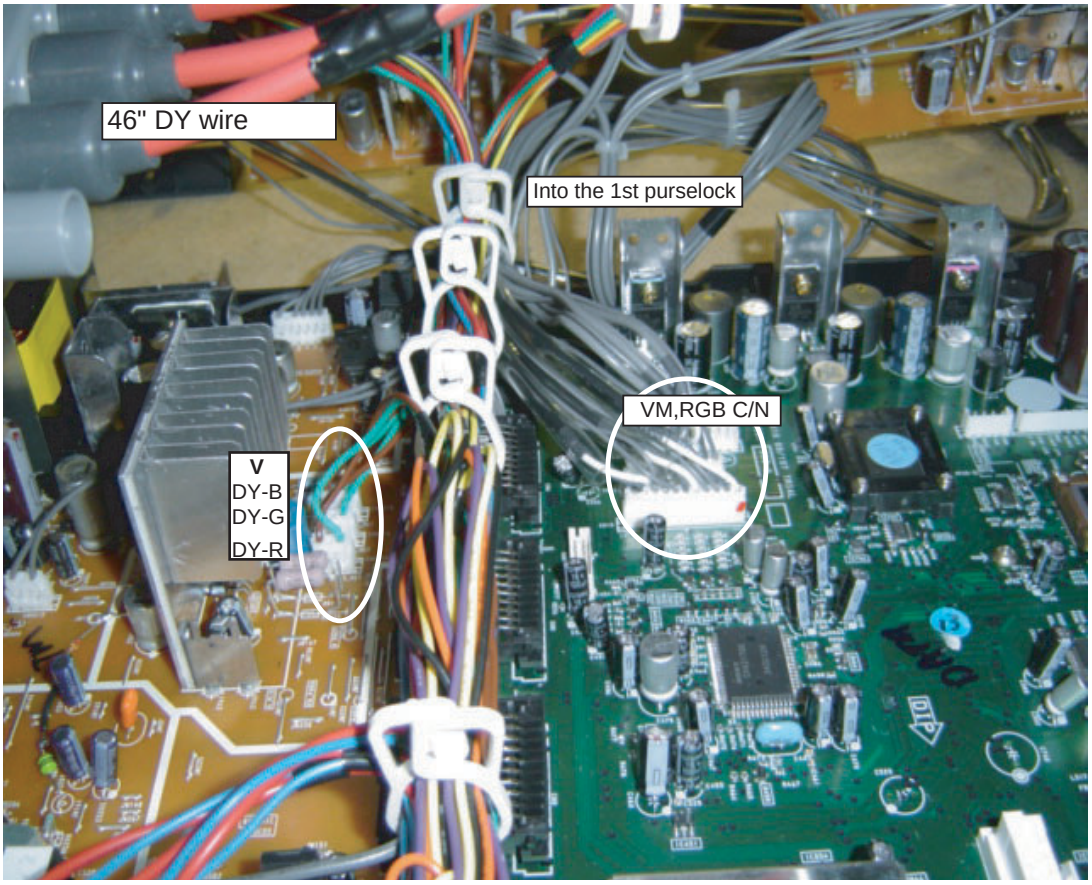
## PWB Block Docking



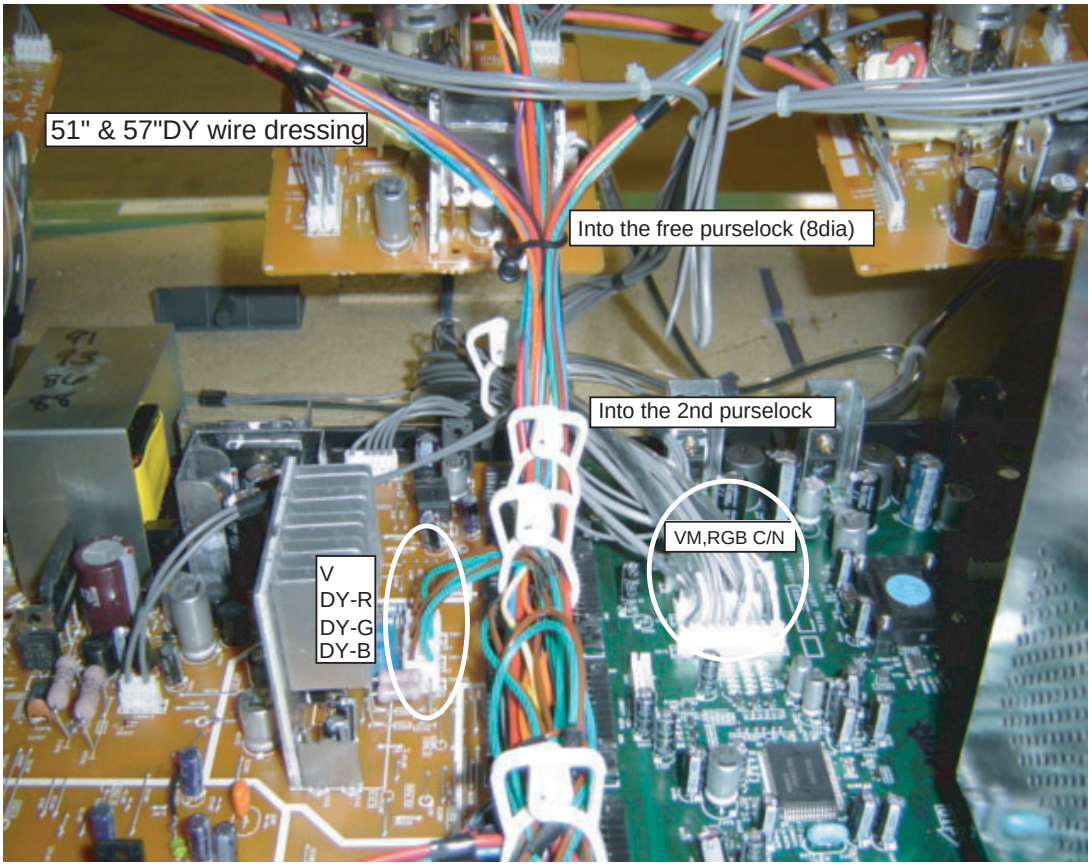
## C, FP Connect



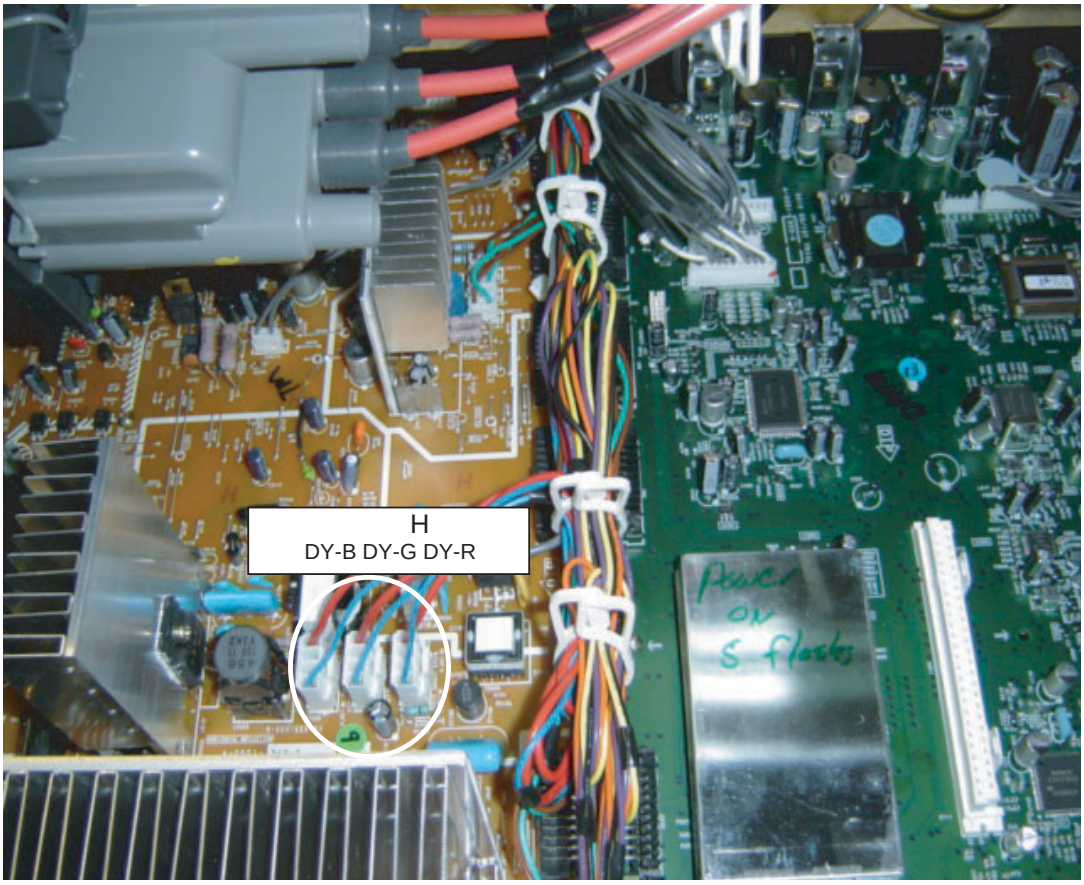

## 46 DY



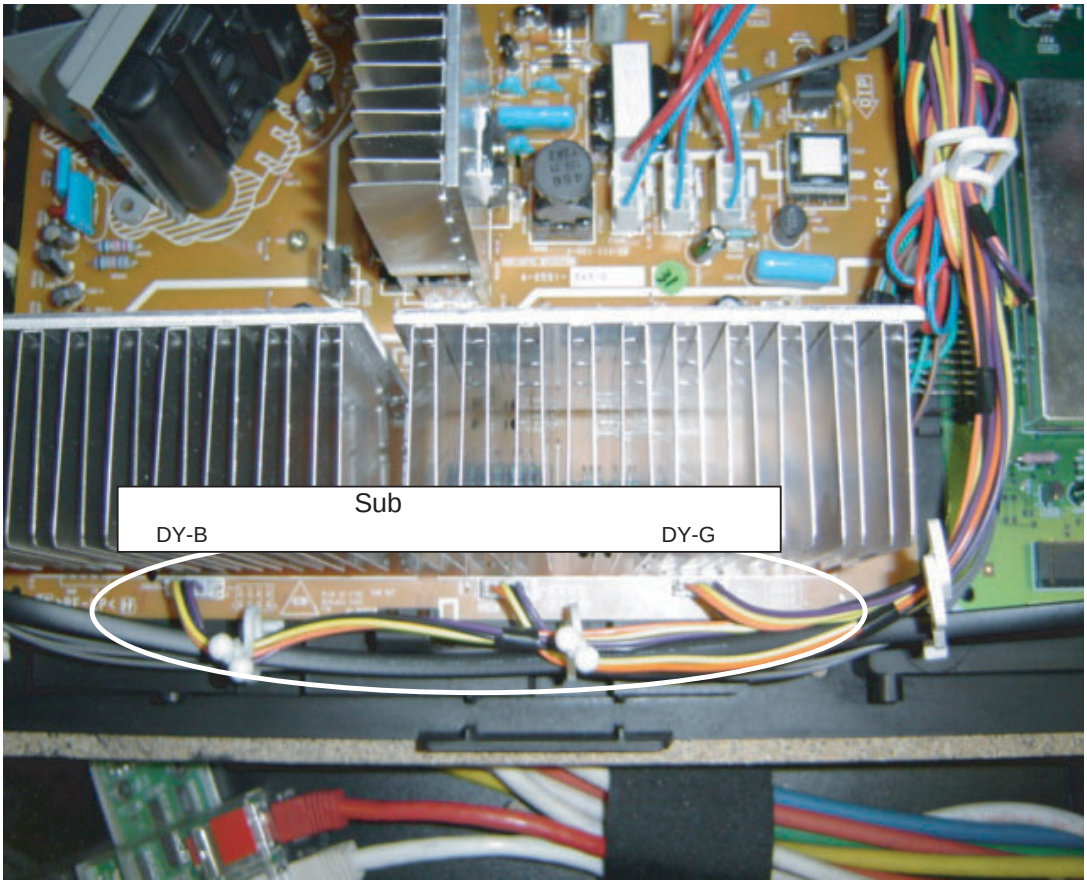
## 51 & 57 DY


51" & 57"DY wire dressing
Into the free purselock (8dia)
Into the 2nd purselock
VM,RGB C/N
V
DY-R
DY-G
DY-B

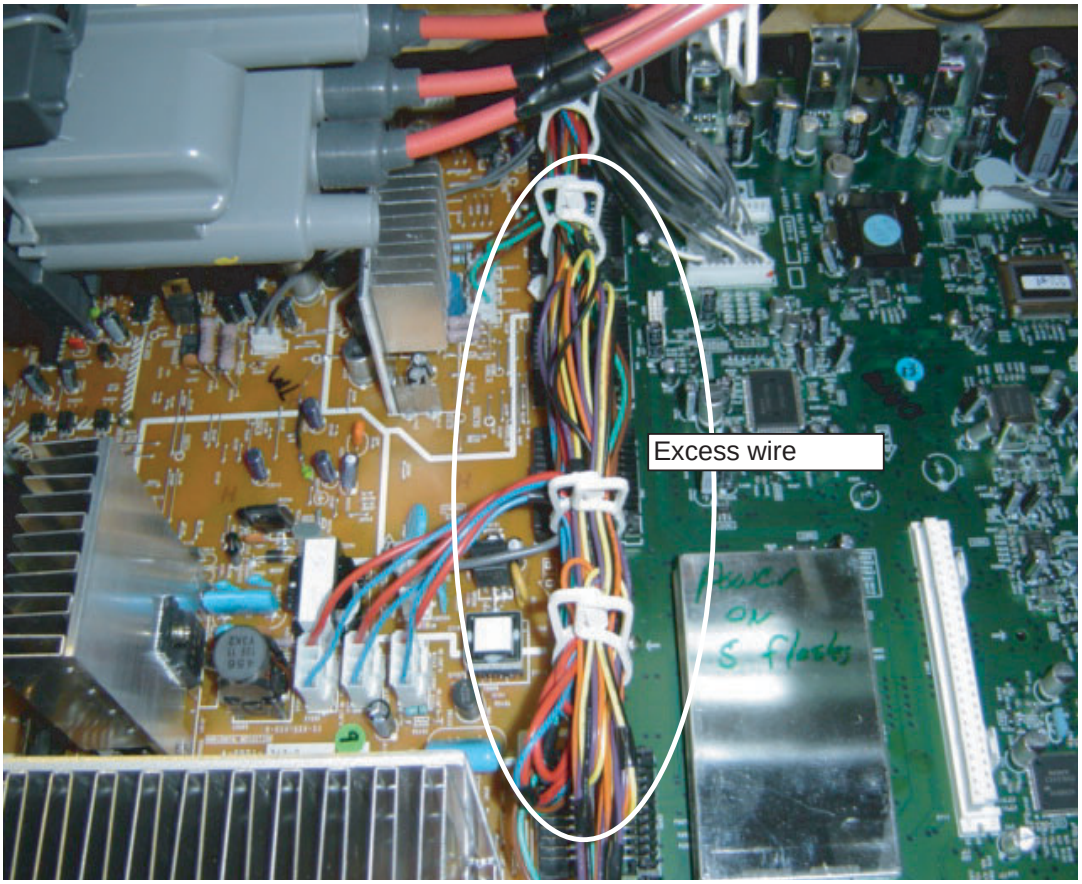
## DY


H
DY-B DY-G DY-R

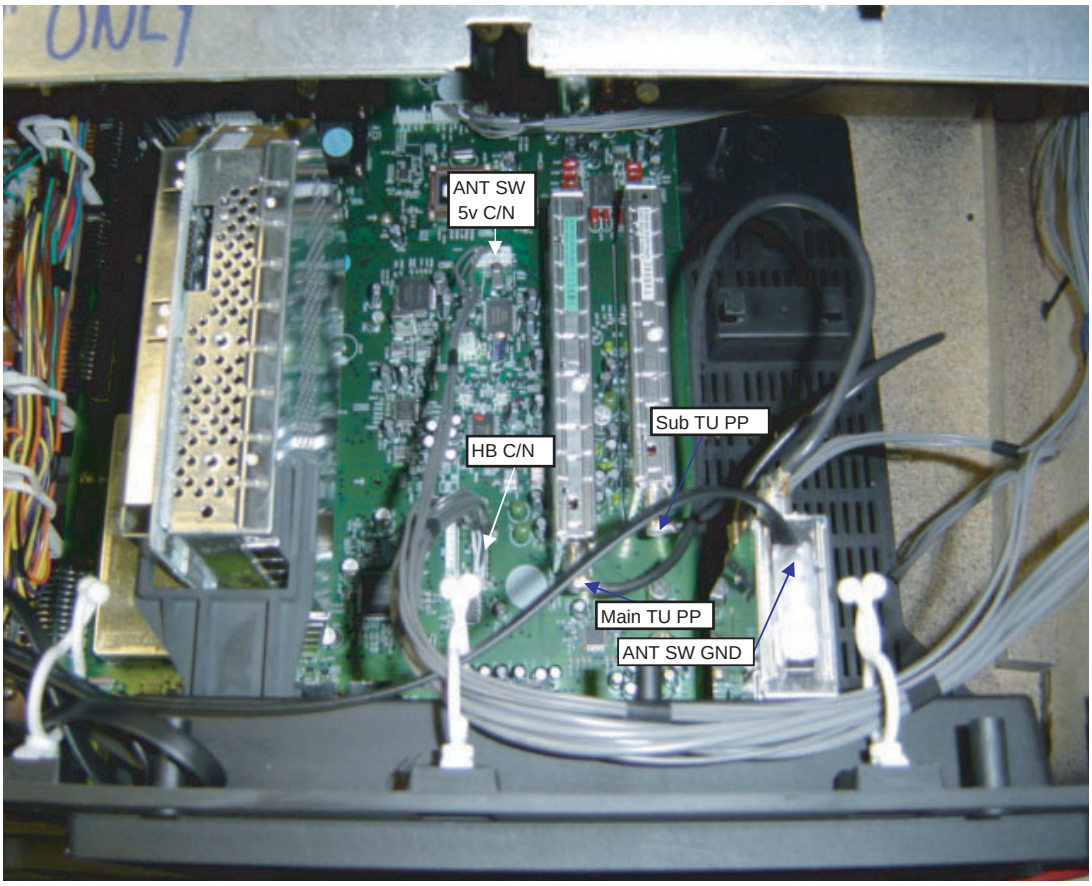
## DY



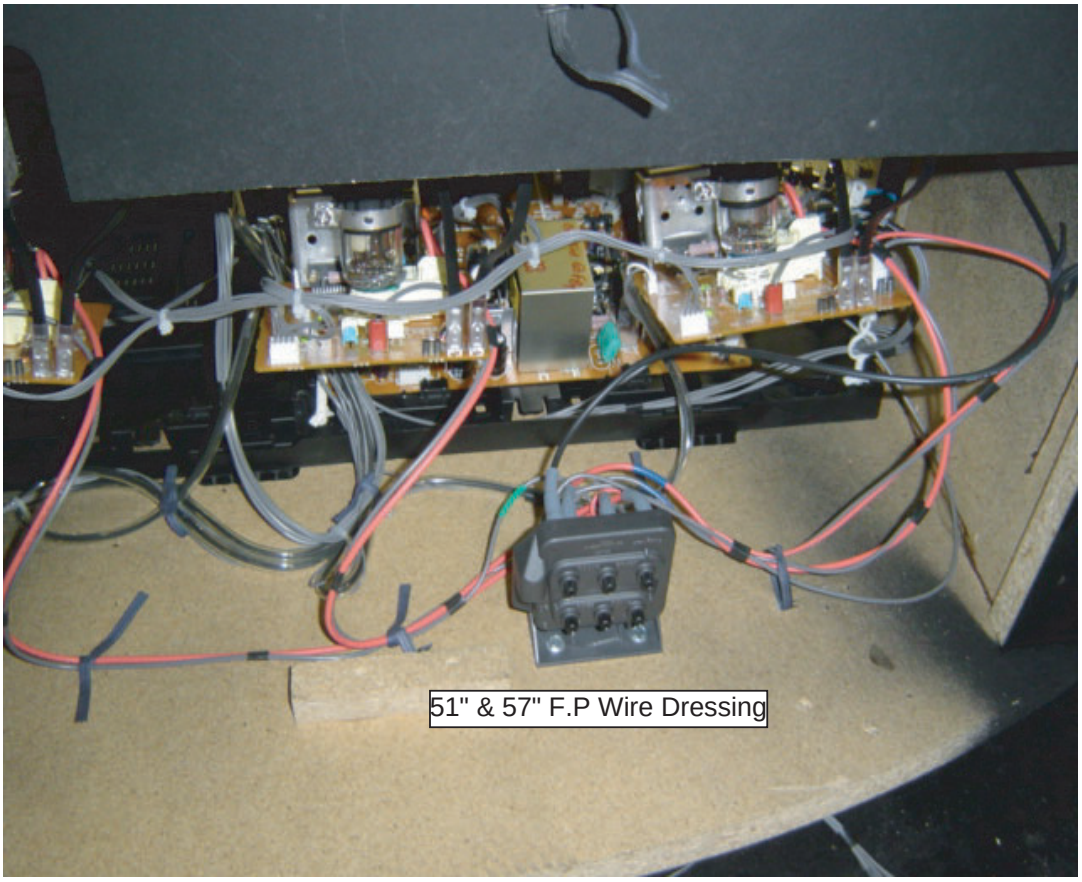

## DY



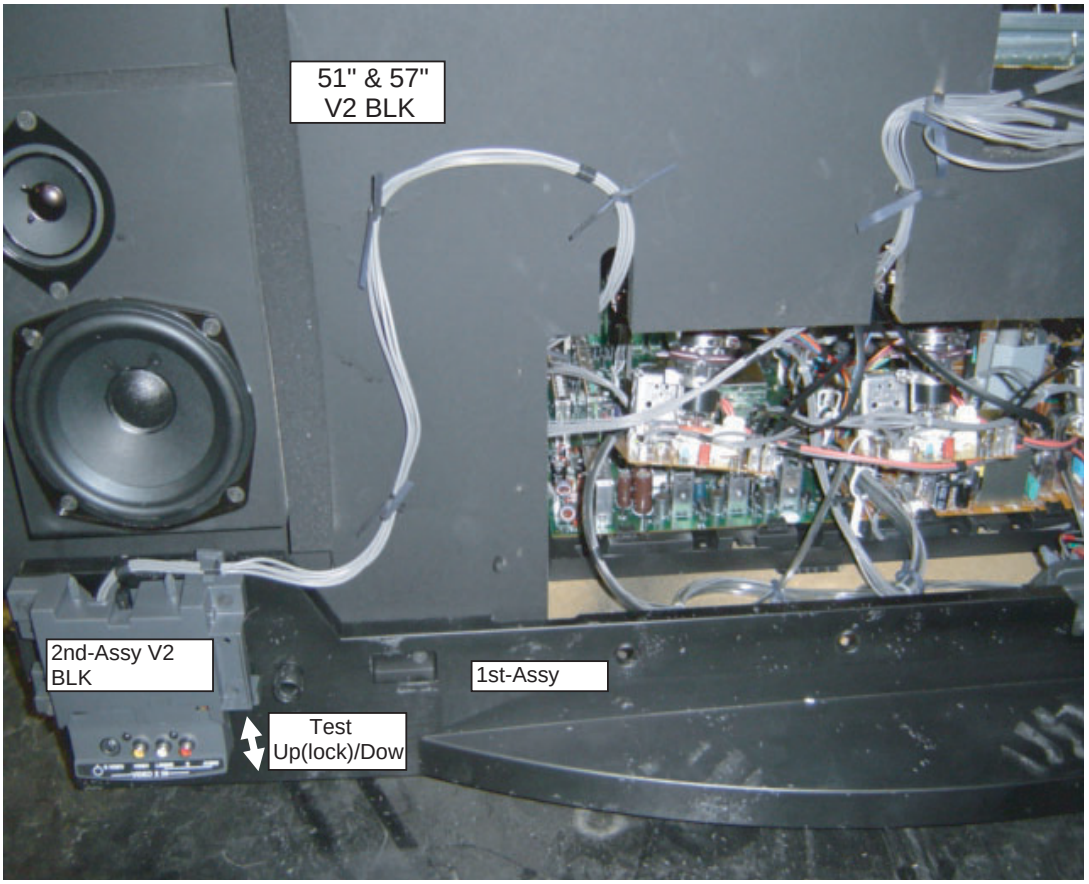
## Terminal Bracket Assy



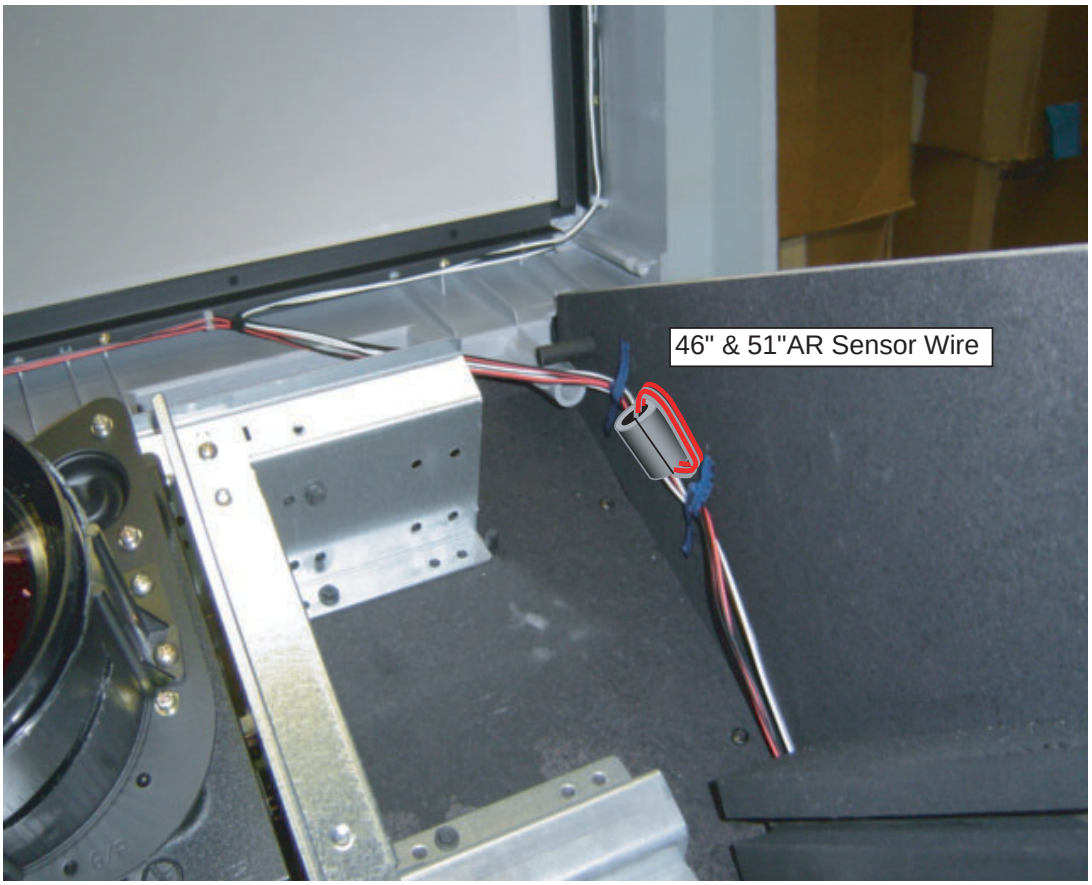
## F.P



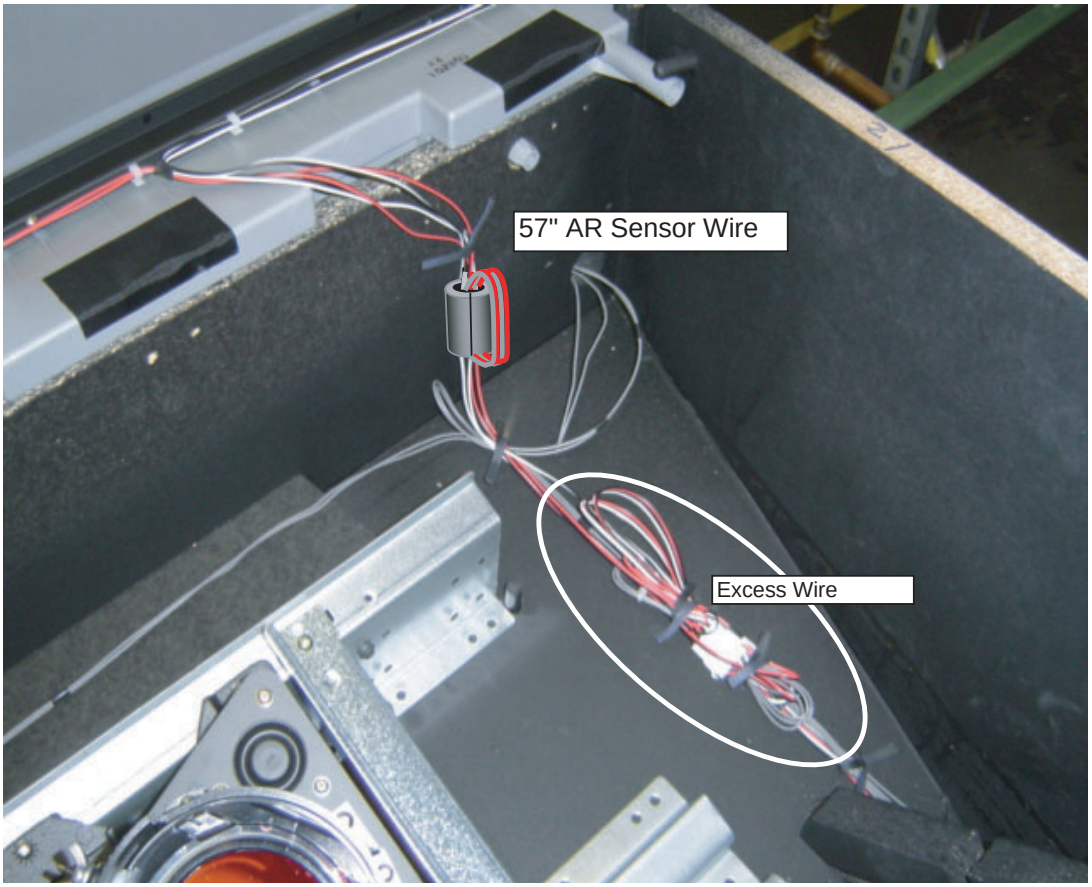

## 51 & 57 V2 Block Assy



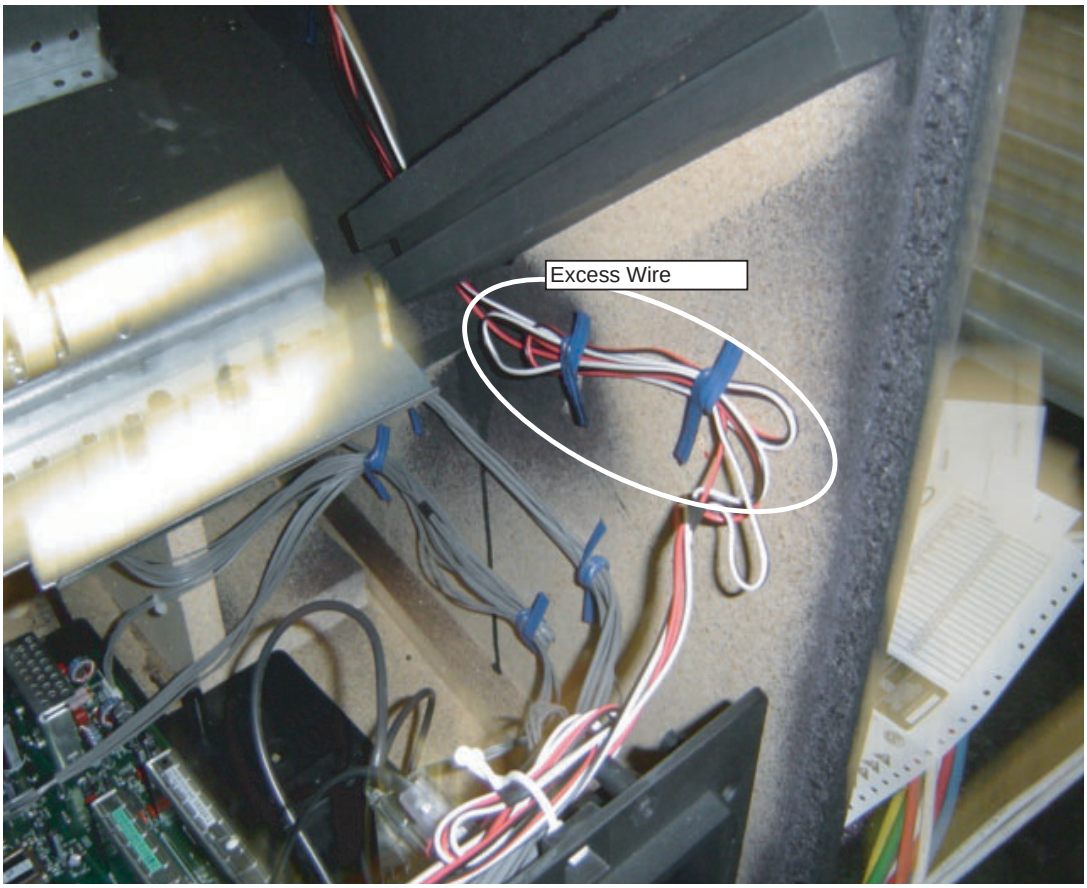
## AR Sensor



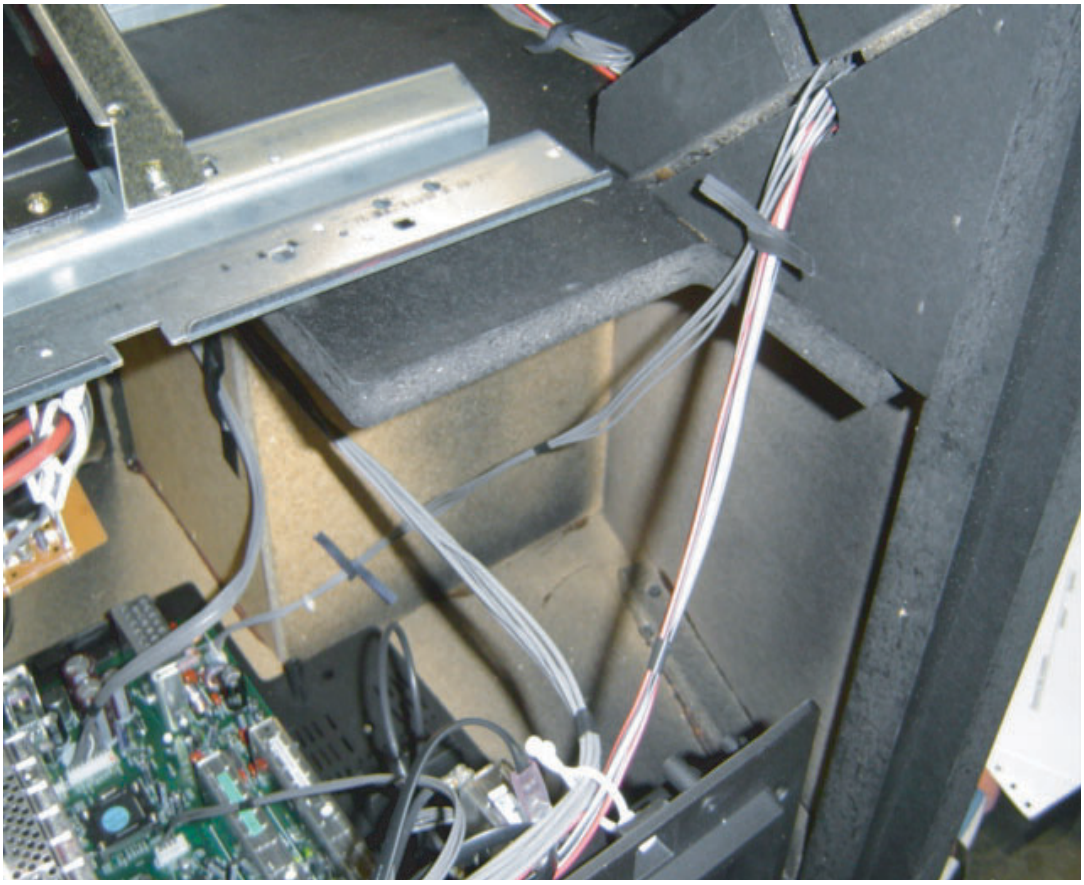

## AR Sensor



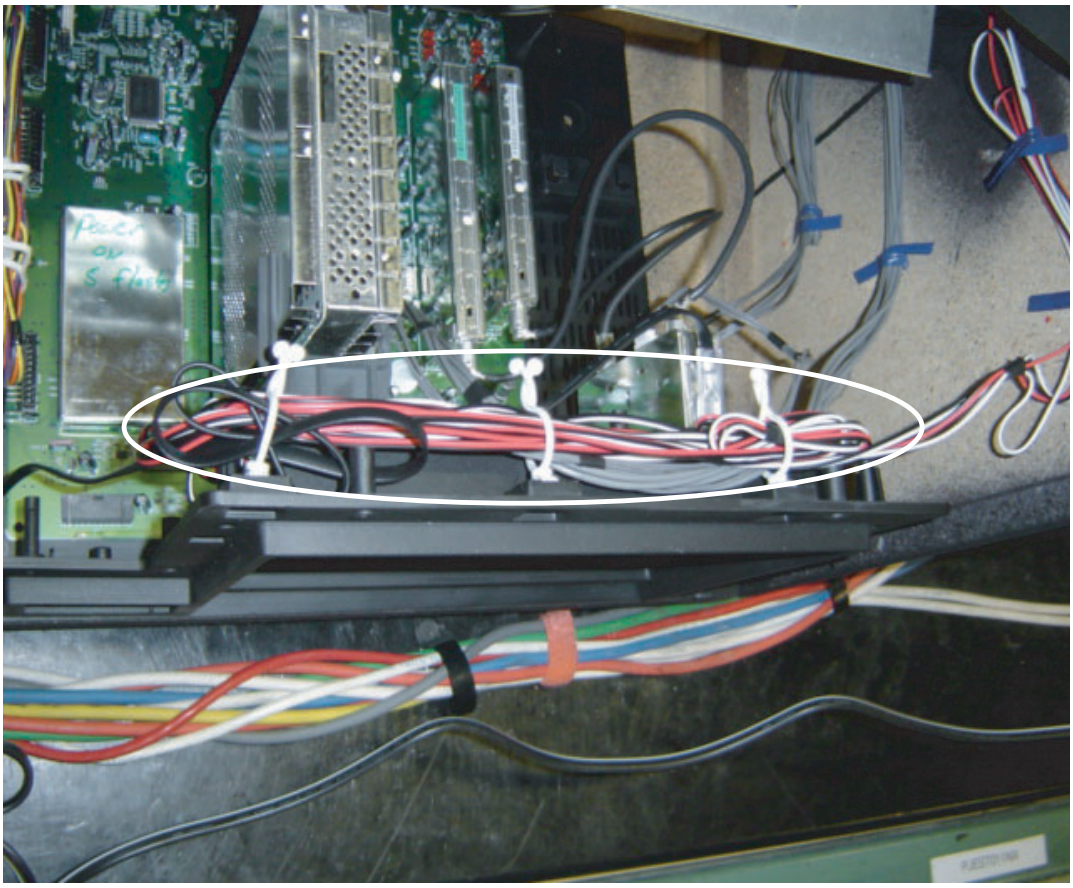
## AR Sensor



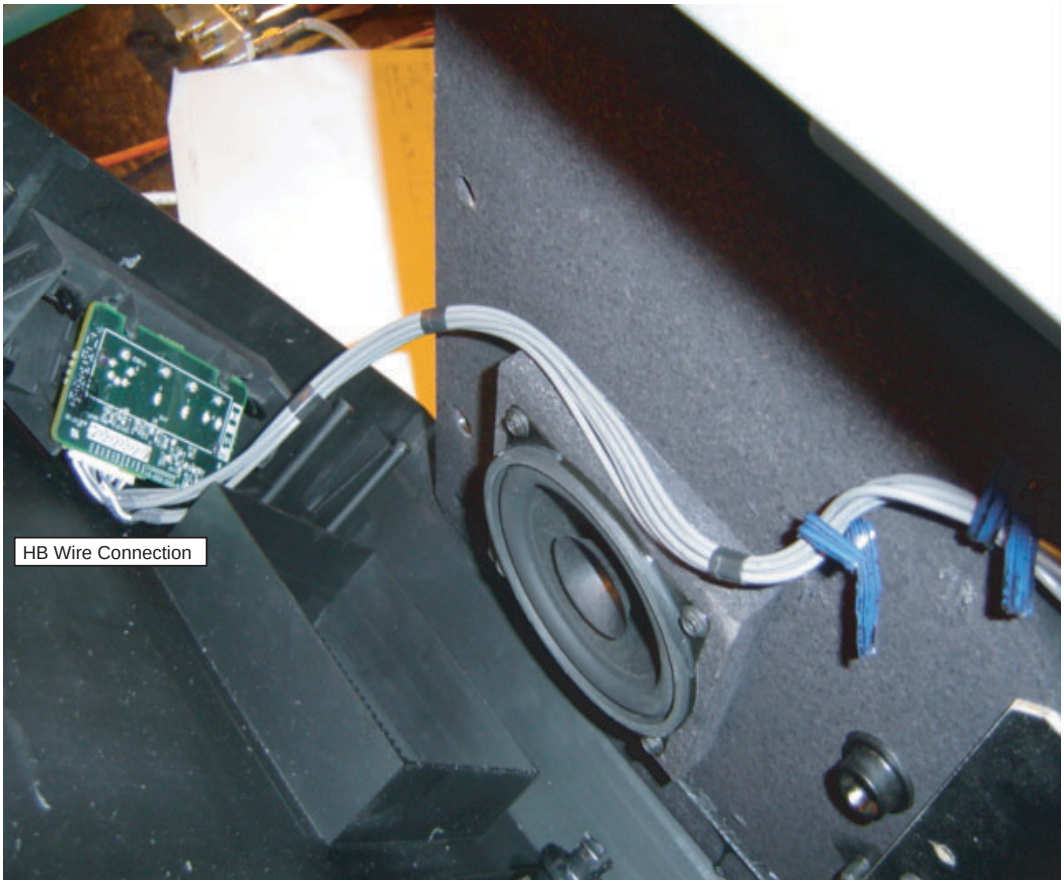

## AR Sensor



## AR Sensor



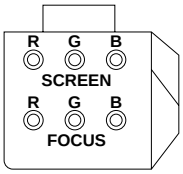
## 46 V2 Assy



# SECTION 2: SET-UP ADJUSTMENTS

## 2-1. SCREEN VOLTAGE ADJUSTMENT (G2) (COARSE ADJUSTMENT)

1. Receive the Monoscope signal.
2. Set BRIGHTNESS to 50% and PICTURE to minimum.
3. Turn the red VR on the focus block all the way to the left and then gradually turn it to the right until the retrace line is barely visible.
4. Gradually turn the control to the left until the retrace line disappears.

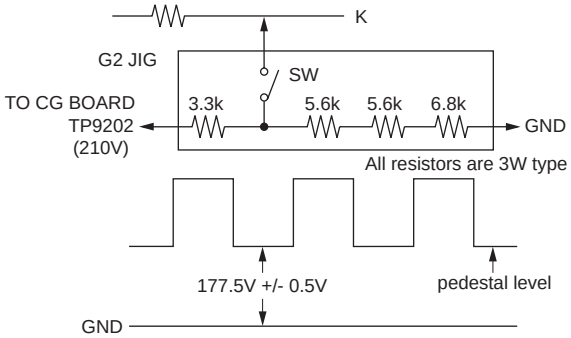



FOCUS Block

## 2-2. SCREEN (G2) ADJUSTMENT (FINE ADJUSTMENT)

If the jig described below is available, it is recommended that the G2 Fine Mode Adjustment be performed to set the screen controls to their optimal condition. If desired, you can build the jig illustrated below, using 3-watt resistors. Please note that if the proper voltage is not obtained with the listed resistor's values, then increase or decrease one of the values in the resistor network to obtain the correct voltage.

1. Select VIDEO-1 mode no signal applied (the screen must be black).
2. Connect the G2 JIG.
3. SW on JIG.
4. Connect an oscilloscope to the TP9101(KR), TP9201(KG) and TP9301(KB) of CR board, CG board, and CB board.
5. Adjust red, green, and blue screen voltage to 177.5+/-0.5V with screen VR on the focus block.

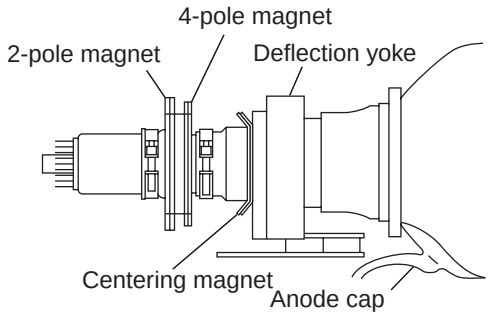



## 2-3. DEFLECTION YOKE TILT ADJUSTMENT

1. Connect the color bar generator monoscope pattern to Video 1 input.
2. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
3. Loosen the CRT's deflection yoke set screw and align the tilt of the deflection yoke so that the horizontal bars at the center of the cross-hatch pattern are parallel to the top and bottom edges of the screen.
4. After aligning the deflection yoke fasten it securely to the funnel-shaped portion (neck) of the CRT.
5. Cover the green and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps), then repeat steps 3 and 4 for the red CRT.

   Cover the green and red CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps), then repeat steps 3 and 4 for the blue CRT.

**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.

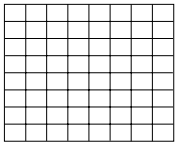


## 2-4. FOCUS LENS ADJUSTMENT

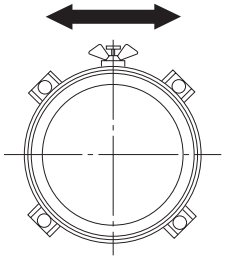
In this adjustment, use the remote commander while in service mode. For details on the usage of the service mode and the remote commander, please refer to section
2-10. ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER.

1. Loosen the lens screw.
2. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
3. Turn the green lens to adjust to the optimum focus point with the crosshatch signal.
4. Tighten the lens screw.
5. Cover the green and blue CRT lenses with the lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
6. Turn the red lens to adjust to the optimum focus point with the crosshatch signal.
7. Tighten the lens screw.
8. Cover the green and red CRT lenses with the lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
9. Turn the blue lens to adjust to the optimum focus point with the crosshatch signal.
10. Tighten the lens screw.
11. After adjusting the items:
    2-5. FOCUS VR ADJUSTMENT,
    2-7. 2-POLE MAGNET ADJUSTMENT,
    2-8. 4-POLE MAGNET ADJUSTMENT,
    reconfirm the optimum focus point and adjust again if necessary.

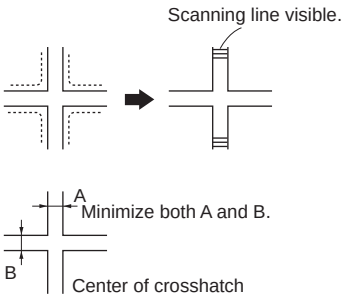
* In PJE mode, every time 6 is pressed, the test signal changes to: "crosshatch+video signal" → "crosshatch+borderline (black)" → "crosshatch (black)" → "dots (black)" → "all white" → off



Test Signal



Lens

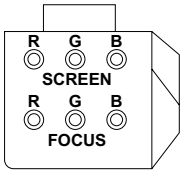



**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.

## 2-5. FOCUS VR ADJUSTMENT

1. Set generator to crosshatch.
2. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
3. Turn the green focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
4. Cover the green and blue picture lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
5. Turn the red focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
6. Cover the green and red picture lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
7. Turn the blue focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
8. After adjusting the items:
    2-4. FOCUS LENS ADJUSTMENT,
    2-7. 2-POLE MAGNET ADJUSTMENT,
    2-8. 4-POLE MAGNET ADJUSTMENT,
    reconfirm the optimum focus point and adjust again if necessary.

**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.




FOCUS Block

## 2-6. CENTERING MAGNET ADJUSTMENT

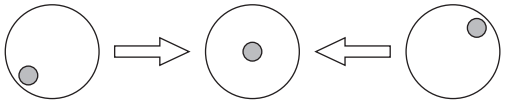
1. Set the mode to PRO.
2. Receive the monoscope signal.
3. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
4. Adjust the green CRT's centering magnet to put the center of the monoscope signal to the center of the screen.
5. Repeat steps 1 through 4 for the red CRT except now you will cover the green and blue CRT lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the red centering magnet.
6. Repeat steps 1 through 4 for the blue CRT except now you will cover the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the blue centering magnet.
7. After 2-Pole and 4-Pole adjustment, entering magnet adjustment needs to be confirmed. If centering magnet is re-adjusted, then 2-Pole magnet will need to be confirmed.

**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.

## 2-7. 2-POLE MAGNET ADJUSTMENT

1. Set the mode to PRO and picture to MAX.
2. Receive the 100IRE 1080i Dot signal.
3. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
4. Turn the focus VR on the focus block to the left (counter clockwise) and set it to overfocus to enlarge the spot.
5. Adjust the CRT's 2-pole magnet so that the small bright spot is in the center.
6. Align the focus VR on the focus block and set it for the best focus.
7. Repeat steps 1 through 6 for the red CRT covering the green and blue CRT lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the red focus control on the focus block.
8. Repeat steps 1 through 6 for the blue CRT covering the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the blue focus control on the focus block.

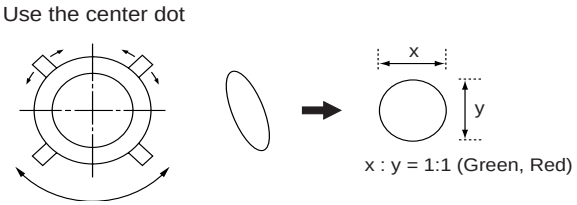
**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.



## 2-8. 4-POLE MAGNET ADJUSTMENT

1. Set the mode to VIVID and WIDE mode = Zoom, VM:Off.
2. Receive the 100IRE 1080i Dot signal.
3. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
4. Turn the (green) focus VR on the focus block to the right (clockwise) and set it to under-focus to reduce the spot.
5. Adjust the 4-pole magnet so that the small spot in the center of the screen becomes round for green and red.
6. Adjust the blue spot for:
   a. KP-46WT520/51WS520 to a round shape X:Y=1:1
   b. KP-57WS520 to an oval shape X:Y=1.2:1
7. Repeat steps 1 through 6 for the red CRT except now you will cover the green and blue CRT lenses with lens caps to allow only red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the red focus control on the focus block.
8. Repeat steps 1 through 6 for the blue CRT except now you will cover the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps) and you will adjust the blue focus control on the focus block.

**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.

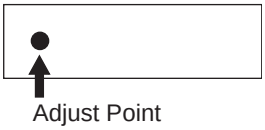



## 2-9. DEFOCUS ADJUSTMENT (BLUE)

**Note:** Adjust the blue dot to be slightly larger than red and green dots. This adjustment provides a more pleasing picture to the customer.

1. Set the mode to PRO, PICTURE : Max, COLOR TEMP : Cool.
2. Receive the 100IRE 1080i Dot signal.
3. Cover the red and green CRT lenses with lens caps to allow only blue to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
4. Turn the blue focus VR on the focus block to the right (clockwise) until blue spot is in focus.
5. Change mode to VIVID to confirm Flare level is minimal using cross hatch signal.
6. Set the generator to an all white signal and check uniformity.

**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.



## 2-10. ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

All of the circuit adjustments can be made by using the remote commander (RM-Y916).

**Note:** The following test equipment is required:

1. Pattern Generator (with component outputs)
2. Frequency counter
3. Digital multimeter
4. Audio oscillator

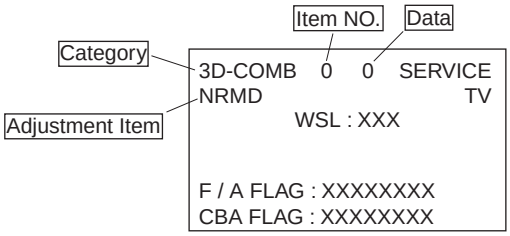
### 2-10-1. METHOD OF ENTERING THE SERVICE ADJUSTMENT MODE

**SERVICE MODE PROCEDURE**

1. TV must be in Standby mode. (Power off)
2. Press “DISPLAY”, “5”, “VOL +”, then “POWER” on the remote commander.

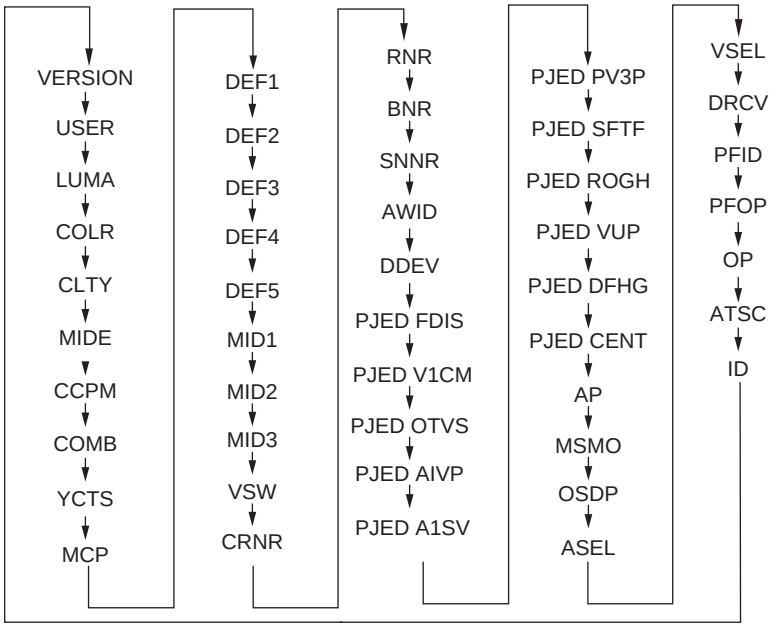
   (Press each button within 1 second of pressing the previous button.)

**SERVICE MODE ADJUSTMENT**




3. The screen displays the item being adjusted within that category.
4. Press 1 or 4 on the remote commander to select the adjustment item
5. Press 3 or 6 on the remote commander to change the data
6. Press 2 or 5 on the remote commander to select the adjustment category

   Every time you press 2 (Category up), service mode changes in the order shown below:




7. If you want to go back to the most recently saved value, press “0” then “ENTER” to read the memory.
8. Press “MUTING” then “ENTER” to write the new adjustment data into memory.
9. Turn power off when you want to exit the service mode.

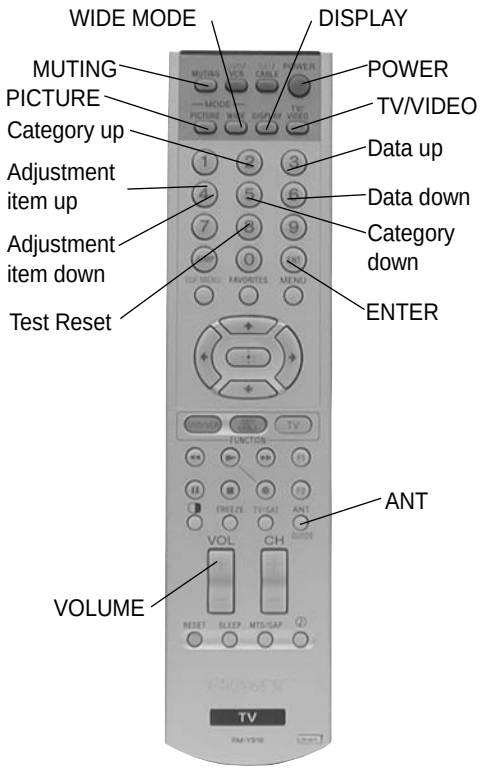
**Note:**: Press “8” then “ENTER” on the remote commander to restore the factory settings for user controls and channel memories (this will also turn set off and then on to exit the service mode).

### 2-10-2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, turn the power off with the remote commander.
2. Turn the power ON and set to service mode.
3. Cycle through the adjusted items again and confirm that the adjustments were saved.

### 2-10-3. ADJUSTING BUTTONS AND INDICATOR

**Note:** When the PJE mode (which displays an internally generated signal) is activated, several buttons on the remote commander will have different functions than the ones listed below. Therefore, when in the PJE mode, refer to section 2-12-3 for button functions.




RM-Y916

# 2-11.ADJUSTABLE SERVICE DATA LISTS

**Only the Adjustable registers are shown in this data list.**

**A complete set of the service data, Fixed and Adjustable, can be downloaded at:**

**http://www-ec.sdp.sel.sony.com/padics/Model_Data_List.htm**

**Only Sony authorized Service Technician can access this site.**

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| OP | 5 | OSDH | OSD Horizontal Position | (common) | 21 | 21 | 21 | 0 | 255 |
| | 6 | OSDF | OSD Favorite Position | (common) | 28 | 28 | 28 | 0 | 63 |

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| CCPM | 1 | YLEV | Y Level | RF - 60HZ | 205 | 205 | 205 | 0 | 255 |
| | | | | CV - 60HZ | 190 | 190 | 190 | 0 | 255 |
| | 2 | CLEV | C Level | RF - 60HZ | 110 | 110 | 110 | 0 | 255 |
| | | | | CV - 60HZ | 103 | 103 | 103 | 0 | 255 |
| | 3 | SHUE | Sub Hue | RF - 60HZ | 7 | 7 | 7 | 0 | 15 |
| | | | | CV - 60HZ | 7 | 7 | 7 | 0 | 15 |
| YCTS (CXA2103) | 2 | SCON | Sub Contrast | RF | 9 | 9 | 9 | 0 | 15 |
| | | | | OTHER | 6 | 6 | 6 | 0 | 15 |
| | 3 | SCOL | Sub Color | RF | 6 | 6 | 6 | 0 | 15 |
| | | | | OTHER | 5 | 5 | 5 | 0 | 15 |
| | 4 | SHUE | Sub Hue | RF | 3 | 3 | 3 | 0 | 15 |
| | | | | OTHER | 5 | 5 | 5 | 0 | 15 |
| MCP | 9 | CBOF | Cb Offset | DRC - RF/BS/CV/YC | 31 | 31 | 31 | 0 | 63 |
| | 10 | CROF | Cr Offset | DRC - RF/BS/CV/YC | 30 | 30 | 30 | 0 | 63 |
| DEF1 | 0 | VPOS | Vertical Position | COMMON | 25 | 25 | 25 | 0 | 63 |
| | 1 | VSIZ | Vertical Size | COMMON | 31 | 31 | 31 | 0 | 63 |
| DEF2 | 2 | HSIZ | Horizontal Size | WIDEZOOM | 24 | 24 | 24 | 0 | 63 |
| | | | | OTHER | 24 | 24 | 24 | 0 | 63 |
| | 3 | SLIN | S Linearity | WIDEZOOM | 7 | 7 | 7 | 0 | 15 |
| | | | | OTHER | 7 | 7 | 7 | 0 | 15 |
| COLR | 2 | RDRV | Red Drive Gain | COMMON | 38 | 38 | 38 | 0 | 63 |
| | 4 | BDRV | Blue Drive Gain | COMMON | 23 | 23 | 23 | 0 | 63 |
| | 5 | RCUT | Red cut-off | COMMON | 23 | 23 | 23 | 0 | 63 |
| | 7 | BCUT | Blue cut-off | COMMON | 27 | 27 | 27 | 0 | 63 |
| | 8 | SBRT | Sub Bright | COMMON | 23 | 23 | 23 | 0 | 63 |

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| PJE | 93 | R0GH | Ratio Offset S0 G H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 94 | R0RH | Ratio Offset S0 R H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 95 | R0BH | Ratio Offset S0 B H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 96 | R1GH | Ratio Offset S1 G H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 97 | R1RH | Ratio Offset S1 R H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 98 | R1BH | Ratio Offset S1 B H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 99 | R2GH | Ratio Offset S2 G H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 100 | R2RH | Ratio Offset S2 R H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 101 | R2BH | Ratio Offset S2 B H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 102 | R3GH | Ratio Offset S3 G H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 103 | R3RH | Ratio Offset S3 R H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 104 | R3BH | Ratio Offset S3 B H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 105 | R1GV | Ratio Offset S1 G V | (common) | 0 | 0 | 0 | -128 | 127 |
| | 106 | R1RV | Ratio Offset S1 R V | (common) | 0 | 0 | 0 | -128 | 127 |
| | 107 | R1BV | Ratio Offset S1 B V | (common) | 0 | 0 | 0 | -128 | 127 |
| | 108 | R2GV | Ratio Offset S2 G V | (common) | 0 | 0 | 0 | -128 | 127 |
| | 109 | R2RV | Ratio Offset S2 R V | (common) | 0 | 0 | 0 | -128 | 127 |
| | 110 | R2BV | Ratio Offset S2 B V | (common) | 0 | 0 | 0 | -128 | 127 |
| | 111 | PTRH | Pattern Offset Top R H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 112 | PTBH | Pattern Offset Top B H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 113 | PLRH | Pattern Offset Left R H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 114 | PLBH | Pattern Offset Left B H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 115 | PLRV | Pattern Offset Left R V | (common) | 0 | 0 | 0 | -128 | 127 |
| | 116 | PLBV | Pattern Offset Left B V | (common) | 0 | 0 | 0 | -128 | 127 |
| | 117 | PRRH | Pattern Offset Right R H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 118 | PRBH | Pattern Offset Right B H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 119 | PRGV | Pattern Offset Right G V | (common) | 0 | 0 | 0 | -128 | 127 |
| | 120 | PRRV | Pattern Offset Right R V | (common) | 0 | 0 | 0 | -128 | 127 |
| | 121 | PRBV | Pattern Offset Right B V | (common) | 0 | 0 | 0 | -128 | 127 |
| | 122 | PBGH | Pattern Offset Bottom G H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 123 | PBRH | Pattern Offset Bottom R H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 124 | PBBH | Pattern Offset Bottom B H | (common) | 0 | 0 | 0 | -128 | 127 |
| | 125 | ERR | Auto Regi Error Code | (common) | 0 | 0 | 0 | 0 | 255 |
| | 130 | VUP | Auto Regi V Upper Pattern Position | (common) | 50 | 50 | 50 | 0 | 2047 |
| | 131 | VMID | Auto Regi V Middle Pattern Position | (common) | 495 | 495 | 495 | 0 | 2047 |
| | 132 | VLOW | Auto Regi V Lower Pattern Position | (common) | 947 | 947 | 947 | 0 | 2047 |
| | 133 | HLE | Auto Regi H Left Pattern Position | (common) | 181 | 181 | 181 | 0 | 2047 |
| | 134 | HMID | Auto Regi H Middle Pattern Position | (common) | 853 | 853 | 853 | 0 | 2047 |
| | 135 | HRIT | Auto Regi H Right Pattern Position | (common) | 1522 | 1522 | 1522 | 0 | 2047 |

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| PJE | 141 | CENT | R H Cent | Full / Normal | 40 | 40 | 40 | -512 | 511 |
| | | | | Zoom | 40 | 40 | 40 | -512 | 511 |
| | | | | WideZoom | 40 | 40 | 40 | -512 | 511 |
| | | | | 1080i Full / Normal | 40 | 40 | 40 | -512 | 511 |
| | | | | 1080i Zoom | 40 | 40 | 40 | -512 | 511 |
| | | | | 1080i WideZoom | 40 | 40 | 40 | -512 | 511 |
| | | | R V Cent | Full / Normal | 20 | 20 | 20 | -512 | 511 |
| | | | | Zoom | 20 | 20 | 20 | -512 | 511 |
| | | | | WideZoom | 20 | 20 | 20 | -512 | 511 |
| | | | | 1080i Full / Normal | 20 | 20 | 20 | -512 | 511 |
| | | | | 1080i Zoom | 20 | 20 | 20 | -512 | 511 |
| | | | | 1080i WideZoom | 20 | 20 | 20 | -512 | 511 |
| | | | G H Cent | Full / Normal | 40 | 40 | 40 | -512 | 511 |
| | | | | Zoom | 40 | 40 | 40 | -512 | 511 |
| | | | | WideZoom | 40 | 40 | 40 | -512 | 511 |
| | | | | 1080i Full / Normal | 40 | 40 | 40 | -512 | 511 |
| | | | | 1080i Zoom | 40 | 40 | 40 | -512 | 511 |
| | | | | 1080i WideZoom | 40 | 40 | 40 | -512 | 511 |
| | | | G V Cent | Full / Normal | 20 | 20 | 20 | -512 | 511 |
| | | | | Zoom | 20 | 20 | 20 | -512 | 511 |
| | | | | WideZoom | 20 | 20 | 20 | -512 | 511 |
| | | | | 1080i Full | 20 | 20 | 20 | -512 | 511 |
| | | | | 1080i Zoom | 20 | 20 | 20 | -512 | 511 |
| | | | | 1080i WideZoom | 20 | 20 | 20 | -512 | 511 |

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| PJE | 141 | | B H Cent | Full / Normal | 40 | 40 | 40 | -512 | 511 |
| | | | | Zoom | 40 | 40 | 40 | -512 | 511 |
| | | | | WideZoom | 40 | 40 | 40 | -512 | 511 |
| | | | | 1080i Full / Normal | 40 | 40 | 40 | -512 | 511 |
| | | | | 1080i Zoom | 40 | 40 | 40 | -512 | 511 |
| | | | | 1080i WideZoom | 40 | 40 | 40 | -512 | 511 |
| | | | B V Cent | Full / Normal | 20 | 20 | 20 | -512 | 511 |
| | | | | Zoom | 20 | 20 | 20 | -512 | 511 |
| | | | | WideZoom | 20 | 20 | 20 | -512 | 511 |
| | | | | 1080i Full / Normal | 20 | 20 | 20 | -512 | 511 |
| | | | | 1080i Zoom | 20 | 20 | 20 | -512 | 511 |
| | | | | 1080i WideZoom | 20 | 20 | 20 | -512 | 511 |
| | 142 | SIZE | R H Size | Full / Normal | -120 | -120 | -120 | -512 | 511 |
| | | | | Zoom | -120 | -120 | -120 | -512 | 511 |
| | | | | WideZoom | -120 | -120 | -120 | -512 | 511 |
| | | | | 1080i Full / Normal | -120 | -120 | -120 | -512 | 511 |
| | | | | 1080i Zoom | -120 | -120 | -120 | -512 | 511 |
| | | | | 1080i WideZoom | -120 | -120 | -120 | -512 | 511 |
| | | | R V Size | Full / Normal | -80 | -80 | -80 | -512 | 511 |
| | | | | Zoom | -80 | -80 | -80 | -512 | 511 |
| | | | | WideZoom | -80 | -80 | -80 | -512 | 511 |
| | | | | 1080i Full / Normal | -80 | -80 | -80 | -512 | 511 |
| | | | | 1080i Zoom | -80 | -80 | -80 | -512 | 511 |
| | | | | 1080i WideZoom | -80 | -80 | -80 | -512 | 511 |

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| PJE | 142 | SIZE | G H Size | Full / Normal | -120 | -120 | -120 | -512 | 511 |
| | | | | Zoom | -120 | -120 | -120 | -512 | 511 |
| | | | | WideZoom | -120 | -120 | -120 | -512 | 511 |
| | | | | 1080i Full / Normal | -120 | -120 | -120 | -512 | 511 |
| | | | | 1080i Zoom | -120 | -120 | -120 | -512 | 511 |
| | | | | 1080i WideZoom | -120 | -120 | -120 | -512 | 511 |
| | | | G V Size | Full / Normal | -80 | -80 | -80 | -512 | 511 |
| | | | | Zoom | -80 | -80 | -80 | -512 | 511 |
| | | | | WideZoom | -80 | -80 | -80 | -512 | 511 |
| | | | | 1080i Full / Normal | -80 | -80 | -80 | -512 | 511 |
| | | | | 1080i Zoom | -80 | -80 | -80 | -512 | 511 |
| | | | | 1080i WideZoom | -80 | -80 | -80 | -512 | 511 |
| | | | B H Size | Full / Normal | -120 | -120 | -120 | -512 | 511 |
| | | | | Zoom | -120 | -120 | -120 | -512 | 511 |
| | | | | WideZoom | -120 | -120 | -120 | -512 | 511 |
| | | | | 1080i Full / Normal | -120 | -120 | -120 | -512 | 511 |
| | | | | 1080i Zoom | -120 | -120 | -120 | -512 | 511 |
| | | | | 1080i WideZoom | -120 | -120 | -120 | -512 | 511 |
| | | | B V Size | Full / Normal | -80 | -80 | -80 | -512 | 511 |
| | | | | Zoom | -80 | -80 | -80 | -512 | 511 |
| | | | | WideZoom | -80 | -80 | -80 | -512 | 511 |
| | | | | 1080i Full / Normal | -80 | -80 | -80 | -512 | 511 |
| | | | | 1080i Zoom | -80 | -80 | -80 | -512 | 511 |
| | | | | 1080i WideZoom | -80 | -80 | -80 | -512 | 511 |

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| PJE | 143 | LIN | R H Lin | Full / Normal | 300 | 300 | 300 | -512 | 511 |
| | | | | Zoom | 300 | 300 | 300 | -512 | 511 |
| | | | | WideZoom | 300 | 300 | 300 | -512 | 511 |
| | | | | 1080i Full / Normal | 300 | 300 | 300 | -512 | 511 |
| | | | | 1080i Zoom | 300 | 300 | 300 | -512 | 511 |
| | | | | 1080i WideZoom | 300 | 300 | 300 | -512 | 511 |
| | | | R V Lin | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | G H Lin | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | G V Lin | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| PJE | 143 | LIN | B H Lin | Full / Normal | -300 | -300 | -300 | -512 | 511 |
| | | | | Zoom | -300 | -300 | -300 | -512 | 511 |
| | | | | WideZoom | -300 | -300 | -300 | -512 | 511 |
| | | | | 1080i Full / Normal | -300 | -300 | -300 | -512 | 511 |
| | | | | 1080i Zoom | -300 | -300 | -300 | -512 | 511 |
| | | | | 1080i WideZoom | -300 | -300 | -300 | -512 | 511 |
| | | | B V Lin | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | 144 | SKEW | R H Skew | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | R V Skew | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| PJE | 144 | SKEW | G H Skew | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | G V Skew | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | B H Skew | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | B V Skew | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| PJE | 145 | BOW | R H Bow | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | R V Bow | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | G H Bow | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | G V Bow | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| PJE | 145 | BOW | B H Bow | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | B V Bow | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | 146 | KEY | R H Key | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | R V Key | Full / Normal | 130 | 130 | 130 | -512 | 511 |
| | | | | Zoom | 130 | 130 | 130 | -512 | 511 |
| | | | | WideZoom | 130 | 130 | 130 | -512 | 511 |
| | | | | 1080i Full / Normal | 130 | 130 | 130 | -512 | 511 |
| | | | | 1080i Zoom | 130 | 130 | 130 | -512 | 511 |
| | | | | 1080i WideZoom | 130 | 130 | 130 | -512 | 511 |

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| PJE | 146 | KEY | G H Key | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | G V Key | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | B H Key | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | B V Key | Full / Normal | -130 | -130 | -130 | -512 | 511 |
| | | | | Zoom | -130 | -130 | -130 | -512 | 511 |
| | | | | WideZoom | -130 | -130 | -130 | -512 | 511 |
| | | | | 1080i Full / Normal | -130 | -130 | -130 | -512 | 511 |
| | | | | 1080i Zoom | -130 | -130 | -130 | -512 | 511 |
| | | | | 1080i WideZoom | -130 | -130 | -130 | -512 | 511 |

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| PJE | 147 | PIN | R H Pin | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | R V Pin | Full / Normal | 380 | 380 | 380 | -512 | 511 |
| | | | | Zoom | 380 | 380 | 380 | -512 | 511 |
| | | | | WideZoom | 380 | 380 | 380 | -512 | 511 |
| | | | | 1080i Full / Normal | 380 | 380 | 380 | -512 | 511 |
| | | | | 1080i Zoom | 380 | 380 | 380 | -512 | 511 |
| | | | | 1080i WideZoom | 380 | 380 | 380 | -512 | 511 |
| | | | G H Pin | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | G V Pin | Full / Normal | 430 | 430 | 430 | -512 | 511 |
| | | | | Zoom | 430 | 430 | 430 | -512 | 511 |
| | | | | WideZoom | 430 | 430 | 430 | -512 | 511 |
| | | | | 1080i Full / Normal | 430 | 430 | 430 | -512 | 511 |
| | | | | 1080i Zoom | 430 | 430 | 430 | -512 | 511 |
| | | | | 1080i WideZoom | 430 | 430 | 430 | -512 | 511 |

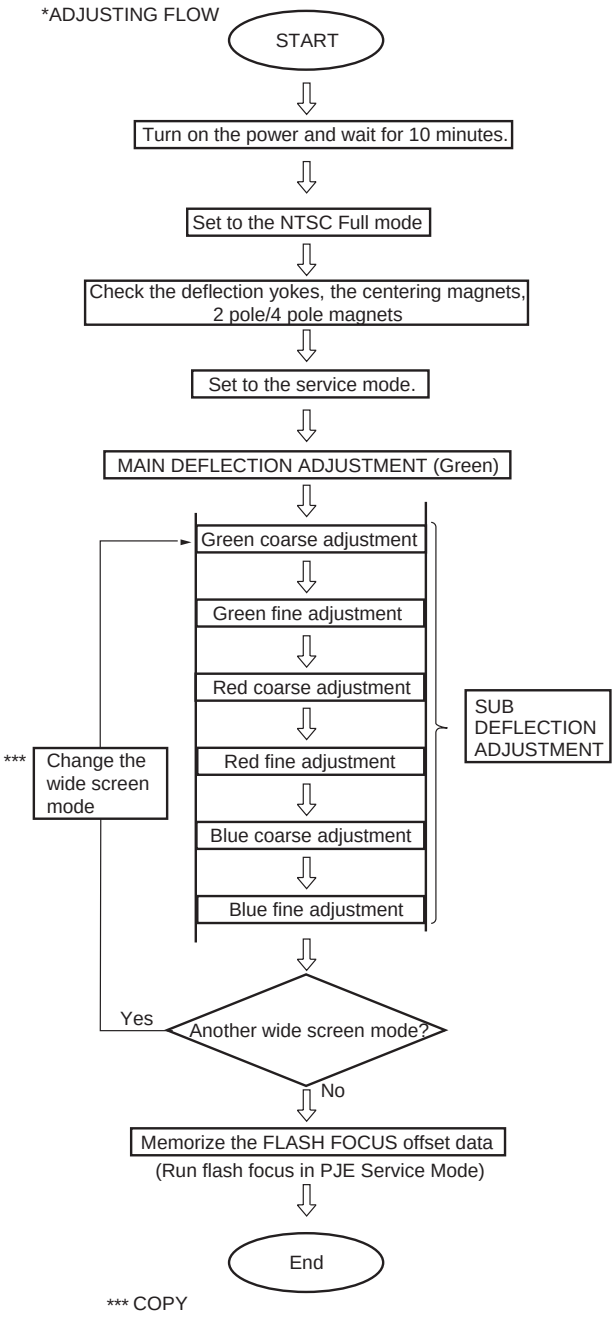
| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| PJE | 147 | PIN | B H Pin | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | B V Pin | Full / Normal | 380 | 380 | 380 | -512 | 511 |
| | | | | Zoom | 380 | 380 | 380 | -512 | 511 |
| | | | | WideZoom | 380 | 380 | 380 | -512 | 511 |
| | | | | 1080i Full / Normal | 380 | 380 | 380 | -512 | 511 |
| | | | | 1080i Zoom | 380 | 380 | 380 | -512 | 511 |
| | | | | 1080i WideZoom | 380 | 380 | 380 | -512 | 511 |
| | 148 | MLIN | R H Middle Lin | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | G H Middle Lin | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| PJE | 148 | MLIN | B H Middle Lin | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | 149 | MSIZ | R H Middle Size | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | G H Middle Size | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Zoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | B H Middle Size | Full / Normal | 0 | 0 | 0 | -512 | 511 |
| | | | | Zoom / V.Comp | 0 | 0 | 0 | -512 | 511 |
| | | | | WideZoom | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i Full | 0 | 0 | 0 | -512 | 511 |
| | | | | 1080i V.Comp | 0 | 0 | 0 | -512 | 511 |

## 2-11-1. ID MAP TABLE

| CATEGORY | # | ITEM | DESCRIPTION | CONDITION | SERVICE DATA (dec) | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 51WS520 (U/C) | 57WS520 (U/C) | 46WT520 (U/C) | MIN | MAX |
| ID | 0 | ID0 | ID Byte 0 | (common) | 89 | 89 | 89 | 0 | 255 |
| | 1 | ID1 | ID Byte 1 | (common) | 255 | 255 | 255 | 0 | 255 |
| | 2 | ID2 | ID Byte 2 | (common) | 239 | 239 | 239 | 0 | 255 |
| | 3 | ID3 | ID Byte 3 | (common) | 106 | 106 | 106 | 0 | 255 |
| | 4 | ID4 | ID Byte 4 | (common) | 75 | 75 | 75 | 0 | 255 |
| | 5 | ID5 | ID Byte 5 | (common) | 243 | 243 | 243 | 0 | 255 |
| | 6 | ID6 | ID Byte 6 | (common) | 190 | 190 | 190 | 0 | 255 |
| | 7 | ID7 | ID Byte 7 | (common) | 155 | 155 | 155 | 0 | 255 |

# 2-12. REGISTRATION ADJUSTMENT (PJE MODE ONLY)


*ADJUSTING FLOW
START
Turn on the power and wait for 10 minutes.
Set to the NTSC Full mode
Check the deflection yokes, the centering magnets, 2 pole/4 pole magnets
Set to the service mode.
MAIN DEFLECTION ADJUSTMENT (Green)
Green coarse adjustment
Green fine adjustment
Red coarse adjustment
Red fine adjustment
Blue coarse adjustment
Blue fine adjustment
SUB DEFLECTION ADJUSTMENT
*** Change the wide screen mode
Yes
Another wide screen mode?
No
Memorize the FLASH FOCUS offset data
(Run flash focus in PJE Service Mode)
End
*** COPY

When the NTSC Full mode adjustment has finished, copy its data to NTSC Zoom, HD Full, and HD Zoom modes the first time only and be sure to adjust in the order given.

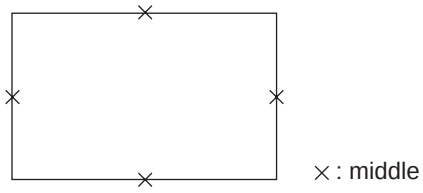
When the NTSC Wide Zoom mode adjustment has finished, copy its data to HD Wide Zoom mode.

This will serve as a starting point for adjusting these other modes. See section 2-13-2. Copying All Registration Data To Other Modes for more information.

## 2-12-1. SETUP FOR ADJUSTMENT

**MARKING**

- At the 4 sides of the screen, locate the middle. Use a tape measure to identify the middle.




**DATA SETTING**

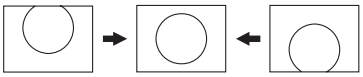
1. Set NTSC Full mode.
2. Enter the service mode, and select “PJE”.

## 2-12-2. MAIN DEFLECTION ADJUSTMENT

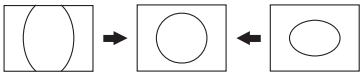
**NOTE:** Before this adjustment, refer to section 2-11 SERVICE DATA LISTS for PJE item #141-149 input data.

1. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
2. Enter the monoscope signal and set to NTSC Full mode.
3. Enter the service mode, and select “DEF1”.
4. Adjust “0 VPOS” and “1 VSIZ” so that the picture is displayed in the center of the screen.

0 VPOS



1 V-Size

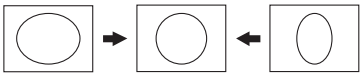


5. Select “DEF2” and adjust “2 H-Size” so that the picture size is within the specification.

SPEC Overscan Spec. = 9%

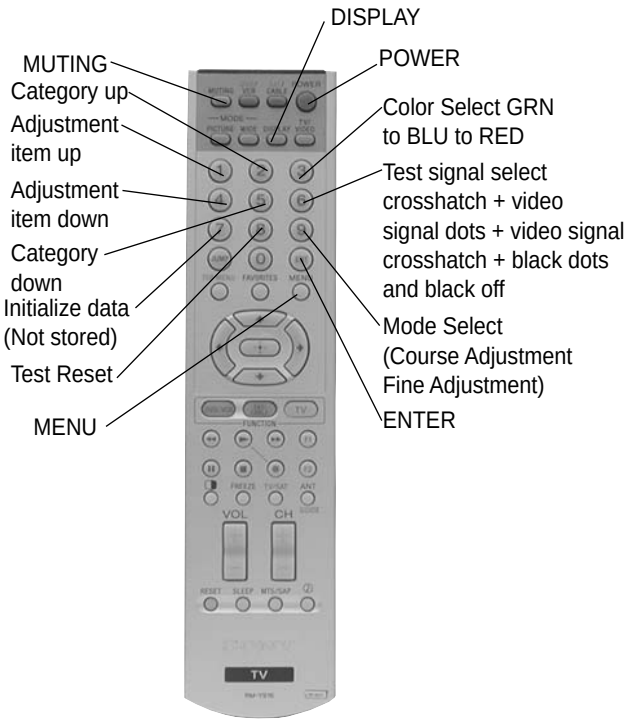
| Input Signal | H SIZE | V SIZE |
|---|---|---|
| Monoscope | 15.6 ± 0.2 sq. | 11.5 ± 0.2 sq. |

2 H-Size



6. Copy the data of the NTSC Full mode to the other wide screen mode and, if necessary, adjust in the other mode.

## 2-12-3. OPERATION METHOD FOR PROJECTOR ENGINE MODE




RM-Y916

### 1. FUNCTION OF KEYS ON COMMANDER

① Changes adjustment item. (Item # moves up)
Marker moves clockwise from center to outside.
(In Fine Adjustment mode)

④ Changes adjustment item. (Item # moves down)
Marker moves counter clockwise from outside to center.
(In Fine Adjustment mode)

② Changes adjustment category.
(Category # moves up)

⑤ Changes adjustment category.
(Category # moves down)

**Joystick** Changes data value. (Up or down)
Marker moves clockwise from center
(up, down, right, and then left) to outside.
(In Fine Adjustment mode)

③ Changes adjustment color.
GRN →BLU →RED

⑥ Displays or changes internal test signals.
crosshatch + external signal →
crosshatch + borderline →
crosshatch only →
dot only → off

⑨ Switches adjustment mode.
Coarse adjustment model →
Fine adjustment point mode →
Fine adjustment row mode →
Fine adjustment column mode

**Press** Switches marker moving method.

**Joystick** (In Fine Adjustment mode)

Pressing down on the joystick in Fine Adjustment mode switches between selecting and un-selecting a point.

When a point is selected, the cursor changes to that color to indicate the point is selected and can be adjusted. If a point is not selected the cursor is white.

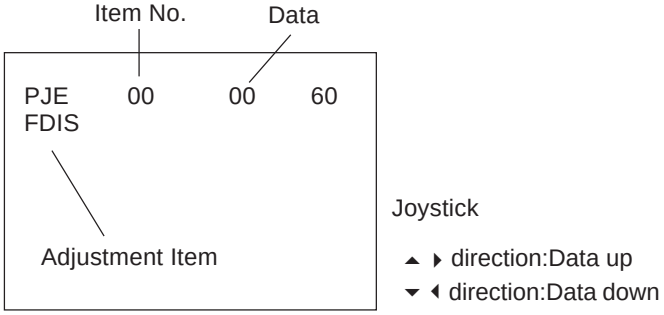
Joystick ▲ ▼ ◀ ▶ keys → **1** and **4** buttons

**Commander Function**

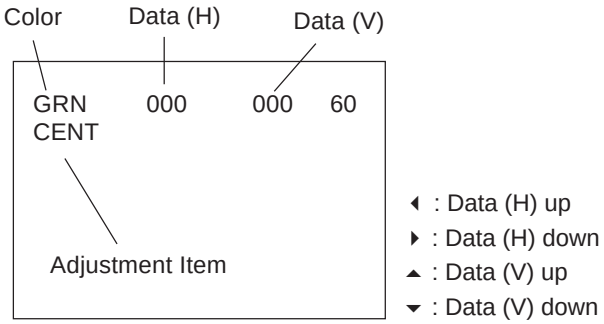
| Buttons | Mode | Description |
|---|---|---|
| **0** + ENTER | READ | Reads data to NVM. |
| MUTING+ENTER | WRITE | Writes data from NVM. |
| **7** + ENTER | PJE INITIAL | Service data initialization. Not stored. (Be sure not to use usually) |

### 2. OPERATION METHOD FOR COARSE ADJUSTMENT

1. Enter the service mode and select “PJE”.
2. Press the “1” or “4” button on the remote commander to select the item, and then use the joystick to change the data.




3. Select “GRN CENT”. When BLU or RED is displayed, press the “3” button on the remote commander to change the adjustment color in the order of GRN →BLU →RED.
4. In the GRN, BLU, or RED mode, move the joystick ▲ or ▼ to change the data in vertical direction, or ◀ or ▶ to change the data in a horizontal direction.

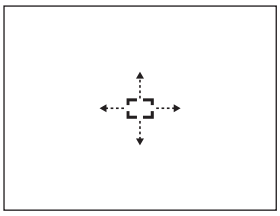



5. Before returning to the service mode, press the “MUTING” + “ENTER” buttons on the remote commander to write the data. (You must complete step 5 to write the data. If you omit step 5 the set data is returned to the data prior to the adjustment.)

**3. OPERATION METHOD FOR FINE ADJUSTMENT**

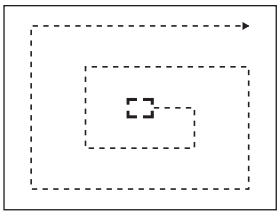
1. Enter the service mode and select “PJE”.
2. Select FDIS and set the data to “01” so that the data at each position can be displayed in fine adjustment mode.
3. Press the “9” button on the remote commander and fine adjustment mode will be active where a green marker appears in the center of the screen. (In the case of GRN mode)
4. Press down on the joystick, and the marker color will be alternately switched between green (GRN mode) and white.
5. Press the “1” or “4” button on the remote commander or use the joystick to move the marker to the position to be adjusted, where fine adjustment can be made.

* When the marker color is white:
(in this case, fine adjustment is disabled)



Use the joystick to move the marker up, down, left, or right.

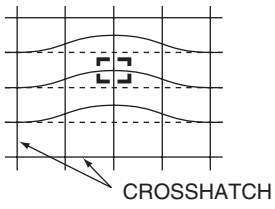
* When the marker color is green:
(GRN mode)



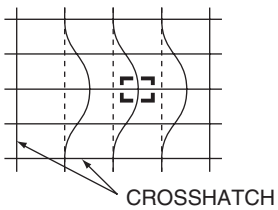
① : Moves the marker clockwise from the center to the outside.
④ : Moves the marker counter clockwise from the outside to the center.

* Fine adjustment can be made on the basis of a marker position using the joystick to move ▲ ▼ ◀ or ▶.

Move joystick ▲ direction




Move joystick ▶ direction




6. Press the “9” button on the remote commander to return to the coarse adjustment mode.

## 2-13.PJE ADJUSTMENT (SUB DEFLECTION ADJUSTMENT)

| Adjustment item | Adjustment type | | |
|---|---|---|---|
| | G | R | B |
| | H/V* | H/V* | H/V* |
| CENT | O/O | O/O | O/O |
| SKEW | O/O | O/O | O/O |
| SIZE | O/O | O/O | O/O |
| LIN | O/O | O/O | O/O |
| BOW | O/O | O/O | O/O |
| KEY | O/O | O/O | O/O |
| PIN | O/O | O/O | O/O |
| MLIN | O/— | O/— | O/— |
| MSIZ | O/— | O/— | O/— |

* H = Horizontal V = Vertical O = Yes — = No

**Note:** If the value is over the limit value, adjust these in the fine adjustment.

**Coarse Data Limit Value:**

| | |
|---|---|
| CENT H | -135 TO + 205 |
| CENT V | -150 TO + 190 |
| SKEW | -75 TO + 75 |
| SIZE H | -75 MAX |
| BLUE H LIN | -425 MIN |
| RED H LIN | +425 MAX |
| FINE DATA LIMIT<br>Except the extreme left & right outside columns which have no limit | ± 107 |

## 2-13-1. ADJUSTMENT FOR NTSC FULL MODE

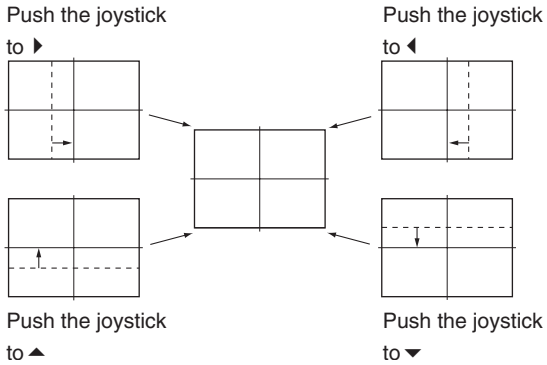
- The adjustment should be done in the numerical order given.

### 1) GREEN ADJUSTMENT

1. Cover the red and blue CRT lenses with lens caps to allow only green to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
2. Enter the monoscope signal to set.
3. Select the PJE mode.
4. Press the “6” button on the remote commander to display the internal test signal (crosshatch).
5. Select “GRN CENT”, and adjust so that the pictures coincide in the center of screen.

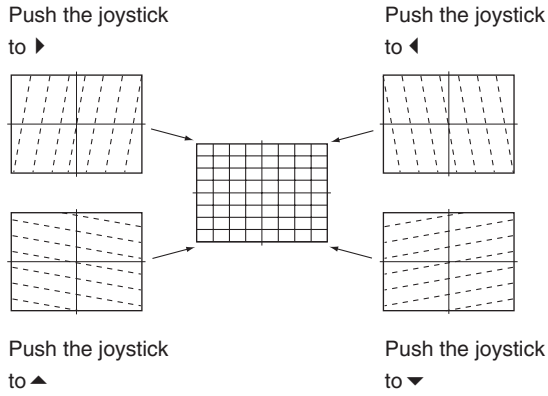
**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.

**GRN CENT (Horizontally/Vertically)**



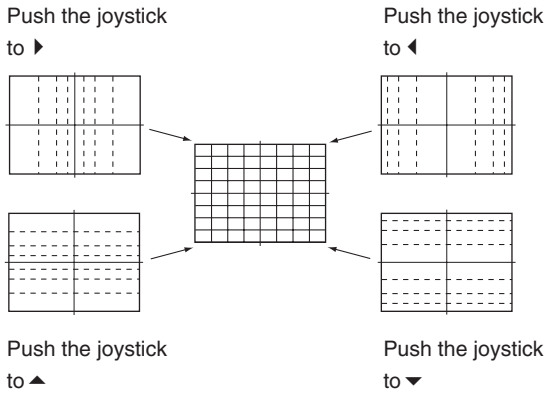

6. Select “GRN SKEW”, and correct the tilt of horizontal lines and vertical lines.

**GRN SKEW (Horizontally/Vertically)**



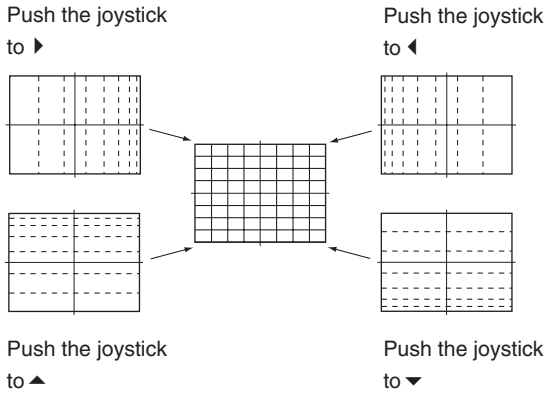

7. Select “GRN SIZE”, and adjust so that each distance from center to left end and to right end is equal. Adjust so that each distance from center to top and to bottom is equal.

**GRN SIZE (Horizontally/Vertically)**



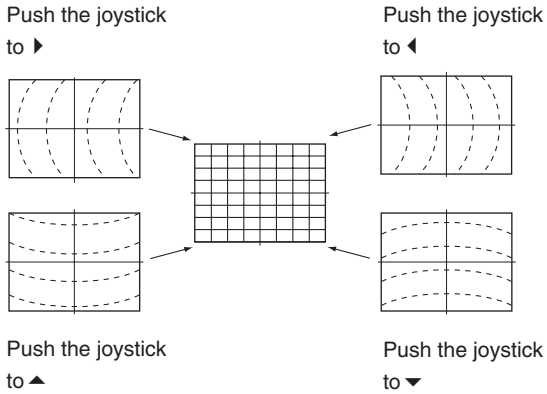

8. Select “GRN LIN”, and adjust so that each space at the right end and at the left end of screen is equal. Adjust so that each space at the top and at the bottom of screen is equal.

**GRN LIN (Horizontally/Vertically)**



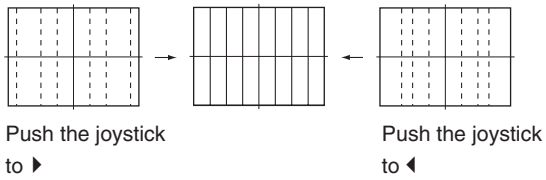

9. Select “GRN BOW”, and adjust so that the raster is not curved.

**GRN BOW (Horizontally/Vertically)**



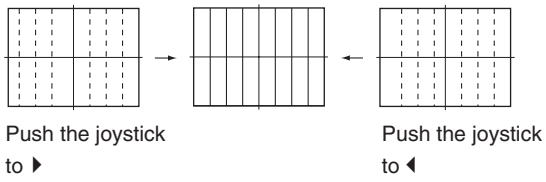
10. Select “GRN MSIZ”, and correct the space intervals for the horizontal section so the screen is equal.

**GRN MSIZ (Horizontally)**




11. Select “GRN MLIN”, and correct the sizes of the horizontal line so the center of the screen is symmetrical left and right.

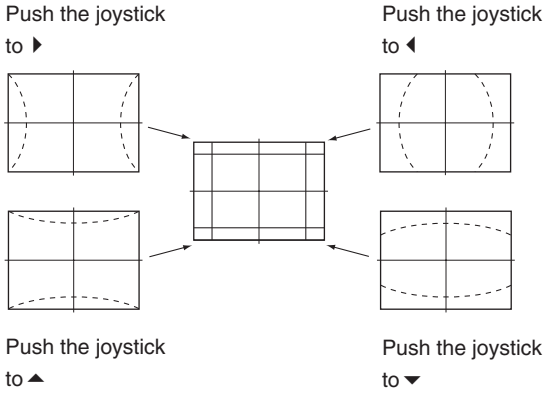
**GRN MLIN (Horizontally)**




**Note**: The SIZE and LIN, MSIZ and MLIN adjustments affect each other. If necessary, adjust these mutually.

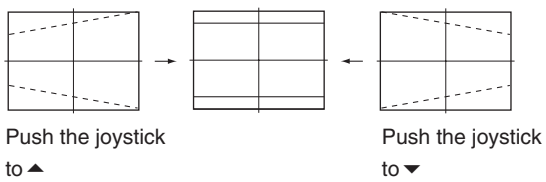
12. Select “GRN PIN”, and adjust so that right and left vertical lines on the screen become straight. Adjust so that upper and lower horizontal lines on the screen become straight.

**GRN PIN (Horizontally/Vertically)**




13. Select “GRN KEY”, and adjust so that upper and lower horizontal lines on the screen become parallel.

**GRN KEY (Vertically)**




**Note**: The VPIN and KEY adjustments affect each other. If necessary, adjust these mutually.

14. Press the “9” button on the remote commander to enter fine adjustment mode.
15. Make the fine adjustment so that horizontal lines and vertical lines become straight.
16. Press the “9” button on the remote commander to return to coarse adjustment mode.

## 2) RED ADJUSTMENT

1. Cover the blue CRT lens with a lens caps to allow only the green and red to show (or use the method shown in the note below for turning off the CRTs individually without using lens caps).
2. Press the “3” button on the remote commander to select RED mode.
3. Adjust the following items so that red lines overlap with green lines.
   - RED CENT (horizontally/vertically)
   - RED SKEW (horizontally/vertically)
   - RED SIZE (horizontally/vertically)
   - RED LIN (horizontally/vertically)
   - RED MSIZ (horizontally)
   - RED MLIN (horizontally)
   - RED PIN (horizontally/vertically)
   - RED KEY (vertically)
4. Press the “9” button on the remote commander to enter fine adjustment mode.
5. Make the fine adjustment so that horizontal lines and vertical lines overlap with green lines.
6. Press the “9” button on the remote commander to return to coarse adjustment mode.

**Note:** If lens caps are unavailable, you can cut off the unnecessary color beams by controlling the service mode MCP-RON, GON, BON.

## 3) BLUE ADJUSTMENT

1. Remove the lens cap from the blue picture lens to display all colors.
2. Press the “3” button on the remote commander to select BLU mode.
3. Adjust the following items so that blue lines overlap with green lines.
   - BLU CENT (horizontally/vertically)
   - BLU SKEW (horizontally/vertically)
   - BLU SIZE (horizontally/vertically)
   - BLU LIN (horizontally/vertically)
   - BLU PIN (horizontally/vertically)
   - BLU KEY (vertically)
4. Press the “9” button on the remote commander to enter fine adjustment mode.
5. Make the fine adjustment so that horizontal lines and vertical lines overlap with green and red lines.
6. Press the “9” button on the remote commander to return `to coarse adjustment mode.

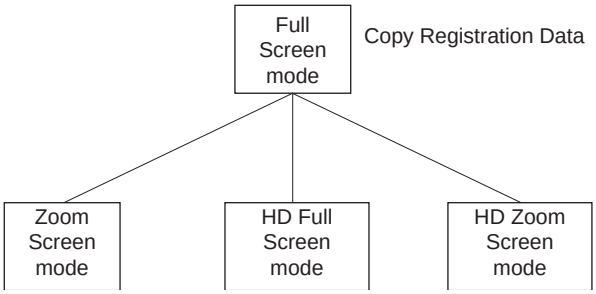
**Note:** When replacing CRTs, adjust the set-up adjustments (2-1 to 2-9) and the registration adjustment (2-12). When replacing multiple CRTs at the same time, replace and adjust them individually.

### 4) REGISTRATION DATA WRITING

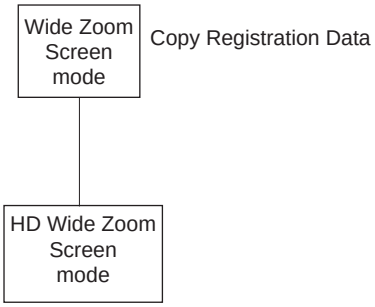
1. After completing each adjustment of green, blue, and red for the NTSC Full mode press the “MUTING”+ “ENTER” buttons in PJE service mode on the remote commander to write the registration data to the NVM.

## 2-13-2. COPYING ALL REGISTRATION DATA TO OTHER MODES

1. Make sure that the adjustment for NTSC Full mode is complete and the data has already been written.
2. Select the PJE mode.
3. Select Copy and set the data to “01”, and press the “MUTING”+“ENTER” buttons on the remote commander.
4. The data from the NTSC Full mode is copied to NTSC Zoom Screen, HD Full Screen, and HD Zoom Screen modes.




5. Make sure that the adjustment for NTSC Wide Zoom mode is complete and the data has already been written.
6. Select the PJE mode.
7. Select Copy and set the data to “01”, and press the “MUTING”+“ENTER” buttons on the remote commander.
8. The data from the NTSC Wide Zoom mode is copied to HD Wide Zoom Screen mode.




9. Check in the other modes and adjust as demands.
   **Be sure to write data in each mode.**

## 2-14.AUTO REGISTRATION OFFSETS

**IMPORTANT**
**This adjustment must be performed after registration adjustment or after readjustment for any reason!**

Once registration in all modes is satisfactory:

1. Darken the room environment near the set.
2. Select input of RF (with a signal) or Video1 - Video4 (with a signal), and enter Full Mode.
   **WARNING: DO NOT USE 1080i SIGNAL!**
3. Enter service mode and select the PJE group.
4. Press the “MUTING” + “ENTER” buttons on the remote commander to write the data for Full mode.

**Important:**

You must complete step 4 even if registration looks OK in Full mode and there were not any adjustments made.

5. To automatically store the offset values, press the “FLASH FOCUS” button on the front panel of the set.
   (The offset value is now stored)
   If FLASH FOCUS successfully calibrates, it displays “CALIBRATION OK.”
   If FLASH FOCUS does not successfully calibrate, an error message is displayed. (Refer to section 2-15)
6. Exit the service mode.
7. If the calibration was successful, press the “FLASH FOCUS” button out of service mode.
8. Confirm registration is OK in all modes.

## 2-15.AUTO REGISTRATION ERROR CODES

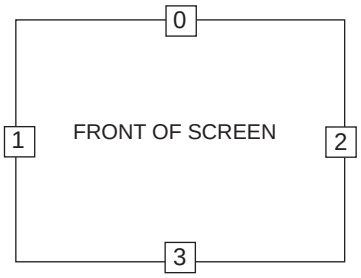
If an error code is displayed after the set has been correctly adjusted, check the following items: position, tilt and sizing. If any of these adjustments are off, even slightly, the auto-registration pattern will not hit the four sensors properly. This occurs when the internal generator patterns are being flashed on the screen for the sensors to read. Therefore, auto registration (called auto convergence) cannot operate properly, causing an error code to be displayed. In order for this function to operate properly, position, tilt and size must be adjusted properly.

**ERROR CODE LIST**

| ERROR CODE | DESCRIPTION | NOTE |
|---|---|---|
| 00 | No Error | |
| 10 | Sensor 0 low output | Check sensor 0, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 130 VUP, 134 HMID if necessary. |
| 11 | Sensor 1 low output | Check sensor 1, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 133 HLE, 131 VMID if necessary. |
| 12 | Sensor 2 low output | Check sensor 2, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 135 HRIV, 131 VMID if necessary. |
| 13 | Sensor 3 low output | Check sensor 3, connection/wiring, circuit, and pattern position (are patterns hitting sensor?) adjust 132 VLOW, 134 HMID if necessary. |
| 20 | Sensor 0 high output | Check sensor 0 and circuit. |
| 21 | Sensor 1 high output | Check sensor 1 and circuit. |
| 22 | Sensor 2 high output | Check sensor 2 and circuit. |
| 23 | Sensor 3 high output | Check sensor 3 and circuit. |
| 30 | V CENT or SKEW adjustment loop overflow | Check 131 VMID data and check registration condition. |
| 31 | H CENT or SKEW adjustment loop overflow | Check 134 HMID data and check registration condition. |
| 32 | H LIN or SIZE adjustment loop overflow | Check 133 HLE and 135 HRIT data and check registration condition. |
| 40 | V CENT regi data overflow | Check 131 VMID data and confirm V CENT data (all modes) is not near 511. |
| 41 | H CENT regi data overflow | Check 134 HMID data and confirm H CENT data (all modes) is not near 511. |
| 42 | V SKEW regi data overflow | Check 131 VMID data and confirm V SKEW data (all modes) is not near 511. |
| 43 | H SKEW regi data overflow | Check 134 HMID data and confirm H SKEW data (all modes) is not near 511. |
| 44 | H LIN regi data overflow | Check 133 HLE and 135 HRIT data and confirm H CENT data (all modes) is not near 511. |
| 45 | H SIZE regi data overflow | Check 133 HLE and 135 HRIT data and confirm H CENT data (all modes) is not near 511. |
| 50 | V CENT regi data overdrow | Check 131 VMID data and confirm V CENT data (all modes) is not near -512. |
| 51 | H CENT regi data overdrow | Check 134 HMID data and confirm H CENT data (all modes) is not near -512. |
| 52 | V SKEW regi data overdrow | Check 131 VMID data and confirm V SKEW data (all modes) is not near -512. |
| 53 | H SKEW regi data overdrow | Check 134 HMID data and confirm H SKEW data (all modes) is not near -512. |
| 54 | H LIN regi data overdrow | Check 133 HLE and 135 HRIT data and confirm H CENT data (all modes) is not near -512. |
| 55 | H SIZE regi data overdrow | Check 133 HLE and 135 HRIT data and confirm V CENT data (all modes) is not near -512. |
| 60 | CENT/SKEW calibration loop overflow | Check 134 HMID and 131 VMID data and check registration condition. |
| 61 | SIZE/LIN calibration loop overflow | Check 133 HLE, 135 HRIT, 130 VUP, and 132 VLOW data and check registration condition. |
| 70 | V CENT/SKEW ratio limit | Check sensors 1 and 2, connection/wiring, circuit, increase 129 RTML. |
| 71 | H CENT/SKEW ratio limit | Check sensors 0 and 3, connection/wiring, circuit, increase 129 RTML. |
| 73 | H SIZE/Lin ratio limit | Check sensors 1 and 2, connection/wiring, circuit, increase 129 RTML. |
| 80 | SIZE Limit Error | Check that horizontal SIZE data is not near 128 SZLM. |

* In the case of multiple errors, last error is displayed.

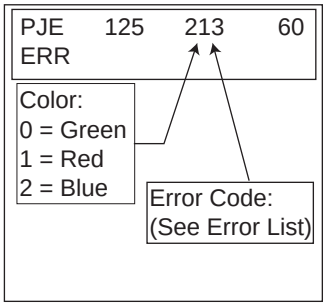
**SENSOR POSITIONS**




0: UPPER SENSOR
1: LEFT SENSOR
2: RIGHT SENSOR
3: LOWER SENSOR

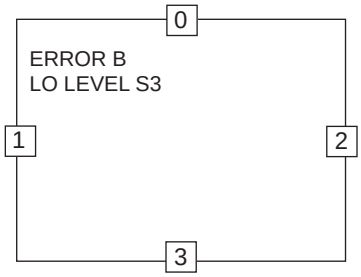
**• ERROR CODE SCREEN DISPLAY**

Error codes in normal (customer) mode are not displayed. You must enter PJE service mode to see the error code.




(Blue Sensor 3 Low Output)

In service mode, the error will be displayed in text format.



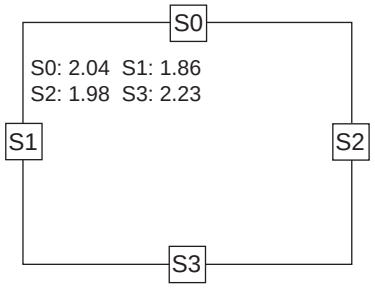

## 2-16.AUTO REGISTRATION DIAGNOSTICS

The TEST service item (PJE #136) can be used to determine if a sensor or sensor amplifier is working properly. It can also be used to check pattern positions.

**133**

**Color:** 0=Green, 1=Red, 2=Blue, 3=All
**CS/ZL:** 0=None, 1=Cent/Skew, 2=siZe/Lin, 3=Both
**Display/Loop**: 0=Display, 1:Loop

| DISPLAY/ LOOP | CS/ZL | COLOR | ACTION |
|---|---|---|---|
| (0) | 0 | 0 | Normal calibration (no diagnostics). |
| (0) | X | X | Performs one adjustment cycle, then displays average peak voltages for the specified CS/ZL and Color. |
| (0) | 3 | 3 | Does nothing (can't display more than one CS/ZL or Color at a time.) |
| 1 | X | X | Adjusts specified CS/ZL and Color until a key is pressed. Useful for measuring signals with oscilloscope. |




Sensor 0 peak voltage = 2.04 V, etc.

# SECTION 3: SAFETY-RELATED ADJUSTMENTS

## D BOARD

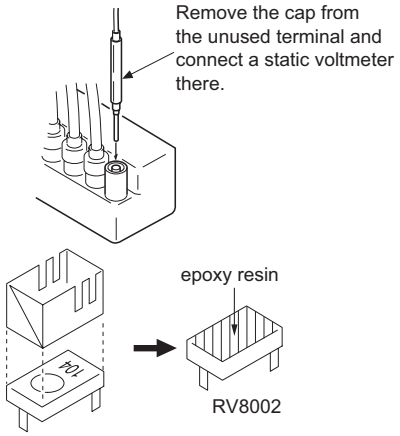
### 3-1. HV REGULATION CIRCUIT CHECK AND ADJUSTMENT

When replacing the following components marked with a ◪ on the schematic diagram always check the HV regulation, and if necessary re-adjust.

| Part Replaced (◪) | Adjustment (⋈) |
|---|---|
| **D BOARD**<br>T8001 (RHT), IC8002, IC8004, IC8005, PH8003, R8014, R8015, R8017, R8060, R8012 | **HV REGULATOR**<br>RV8002 |

**HV REGULATION ADJUSTMENT**

1. Receive the all white signal.
2. Set PIC MAX/BRT CENT.
3. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
4. Power on the set.
5. Receive the all white signal.
6. Set PIC MAX/BRT CENT.
7. Confirm that the static voltmeter reading is 31.0 ± 0.3kV.
8. If not, adjust with RV8002 to the specified value.
9. After adjustment, put the VR cover on RV8002 (as shown below) and apply sufficient amount of epoxy resin around RV8002 .




### 3-2. HV HOLD DOWN CIRCUIT OPERATION CHECK

When replacing the following components marked with a ◪ on the schematic diagram always check the hold-down operation.

| Part Replaced (◪) | Adjustment (⋈) |
|---|---|
| **D BOARD**<br>T8001 (RHT), D8022, IC8001, IC8014, R8008, R8016, R8046, R8052, R8072, R8078, R8079, R8165, R8019 | **HV HOLD DOWN**<br>RV8002 |

**OPERATION CHECK**

1. Receive any source.
2. Using an external DC supply, apply 5 VDC to pin 3 of CN5 on A Board. Set will shutdown.

## G BOARD

## 3-3. +B MAX VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC6503 R6590.

1. Supply 130VAC to variable autotransformer.
2. Receive dot signal pattern and set the PICTURE and BRIGHTNESS settings to their minimum.
3. Confirm the voltage of TP +B 135V is less than 137.0Vdc.
4. If step 3 is not satisfied, replace IC6503 and repeat steps 1-3.

## 3-4. +B OVP CONFIRMATION

1. Turn on set.
2. Set input conditions.
3. Turn off set.
4. Separate R6809 (D Board) from +135.
5. Apply external 160 ± 1V DC to open end of R6809.
6. Turn on set.
7. Measure voltage at Pin 8 of CN5006 (D Board). Voltage should be less than 0.8V.

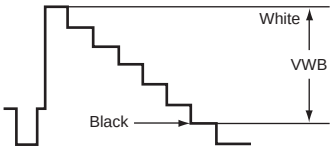
**Input Conditions**

| | |
|---|---|
| Input Voltage: | 120VAC |
| Input Signal: | Dot pattern NTSC |
| Video Controls: | PICTURE set to minimum |
| | BRIGHTNESS set to minimum |

# SECTION 4: CIRCUIT ADJUSTMENTS

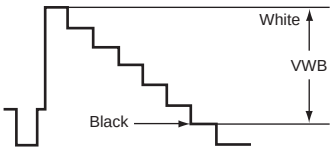
## 4-1. P & P SUB CONTRAST ADJUSTMENT (VIDEO) (SCON)

1. Receive the signal.
   VIDEO 1 terminal — Composite: Color-bar (white-75%, 7.5% setup)
2. VIDEO MODE : Pro
   PICTURE : Maximum
   COLOR : Minimum
   MCP RON = 0
   BON = 0
3. Set to P & P mode, and receive the color bars in both main and sub (left and right), and set to service mode.
4. Connect an oscilloscope between the check point and ground.
   Check points : A Board CN5 pin 6 (G)
5. Select “CCPM-YLEV” (Main scon), and adjust so that the waveform level of VWB is 1.75 ± 0.03Vp-p.
6. Select “YCTS-SCON” (Sub scon), and adjust so that the waveform level of VWB is 1.75 ± 0.03Vp-p.
7. After completing the adjustments, write the data into memory by pressing “MUTING” → “ENTER” on the remote commander.



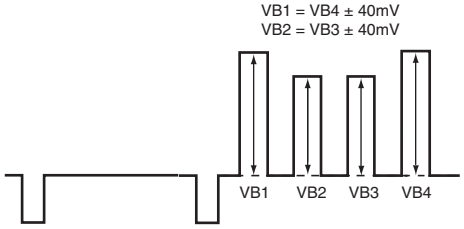

## 4-2. P & P SUB CONTRAST ADJUSTMENT (RF) (SCON)

1. Receive the signal.
   TV terminal — RF : Color-bar (white-75%, 7.5% setup)
2. VIDEO MODE : Pro
   PICTURE : Maximum
   COLOR : Minimum
   MCP RON = 0
   BON = 0
3. Set to P & P mode, and receive the color bars in both main and sub (left and right), and set to service mode.
4. Connect an oscilloscope between the check point and ground.
   Check points : A Board CN5 pin 6 (G)
5. Select “CCPM-YLEV” (Main scon), and adjust so that the waveform level of VWB is 1.75 ± 0.03Vp-p.
6. Select “YCTS-SCON” (Sub scon), and adjust so that the waveform level of VWB is 1.75 ± 0.03Vp-p.
7. After completing the adjustments, write the data into memory by pressing “MUTING” → “ENTER” on the remote commander.



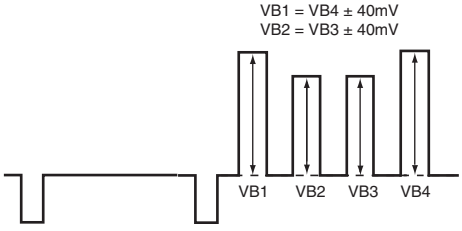

## 4-3. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT VIDEO (SHUE, SCOL)

1. Receive the signal.
   VIDEO 1 terminal — Composite: Color-bar (white-75%, 7.5% setup)
2. VIDEO MODE : Pro
   PICTURE : Maximum
   COLOR : Center
3. Set to P & P mode, and receive the color bars in both main and sub (left and right), set to service mode.
4. Connect an oscilloscope between pin 7 of CN5 (A Board) connector and ground.
5. Select “CCPM-CLEV, CCPM-SHUE” (Main), and adjust them to have VB1 = VB4 ± 40mV and VB2 = VB3 ± 40mV in the waveform levels.
6. Select “YCTS-SCOL, YCTS-SHUE” (Sub), and adjust them to have VB1 = VB4 ± 40mV and VB2 = VB3 ± 40mVin the waveform levels.
7. After completing the adjustments, write the data into memory by pressing “MUTING” → “ENTER” on the remote commander.



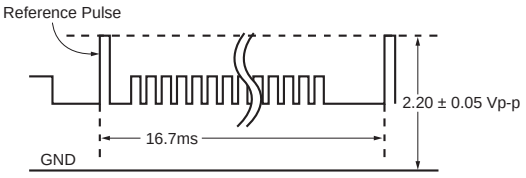

## 4-4. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (RF) (SHUE, SCOL)

1. Receive the signal.
   TV terminal : Color-bar (white-75%, 7.5% setup)
2. VIDEO MODE : Pro
   PICTURE : Maximum
   COLOR : Center
3. Set to P & P mode, and receive the color bars in both main and sub (left and right), set to service mode.
4. Connect an oscilloscope between pin 7 of CN5 (A Board) connector and ground.
5. Select “CCPM-CLEV, CCPM-SHUE” (Main), and adjust them to have VB1 = VB4 ± 40mV and VB2 = VB3 ± 40mV in the waveform levels.
6. Select “YCTS-SCOL, YCTS-SHUE” (Sub), and adjust them to have VB1 = VB4 ± 40mV and VB2 = VB3 ± 40mV in the waveform levels.
7. After completing the adjustments, write the data into memory by pressing “MUTING” → “ENTER” on the remote commander.



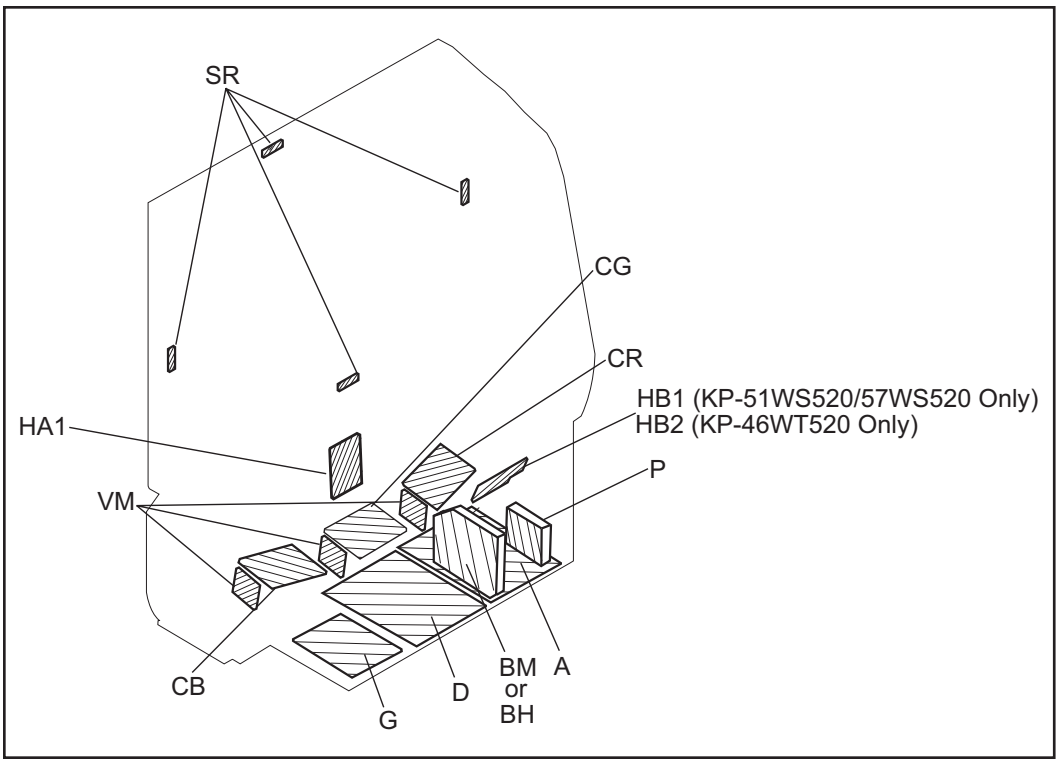
## 4-5. BLUE OFFSET ADJUSTMENT

1. Receive the all black (1080i, component) signal with VIDEO 5 input, and set PICTURE to maximum.
2. Connect an oscilloscope between CN5 7 pin (B) on the (A Board) and ground.
3. Set in the service mode and select the category “DEF2-SLIN”.
4. Adjust “3 SLIN” so that the waveform level is 2.20 ± 0.05Vpp.
5. After completing the adjustments, write the data into memory by pressing “MUTING” → “ENTER” on the remote commander.
6. Receive the RF signal and change the wide screen mode to “Wide Zoom”. Copy the same data to “DEF2-SLIN”.



# SECTION 5: DIAGRAMS

## 5-1. CIRCUIT BOARDS LOCATION




## 5-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in µF unless otherwise noted. pF : µµF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. K=1000, M=1000k

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm
Rating electrical power : $^1/_4$ W

$^1/_4$ W in resistance, $^1/_{10}$ W and $^1/_8$ W in chip resistance.

: nonflammable resistor.

: fusible resistor.

△ : internal component.

: panel designation and adjustment for repair.

⊥ : earth ground

⏚ : earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a NTSC color-bar signal input.

Readings are taken with a 10M digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibillity.

**The components identified by shading and ⚠ symbol are critical for safety. Replace only with part number specified.**

**The symbol indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.**

**Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

**Le symbole indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.**

: B+ line

: B-line. (Actual measured value may be different).

: signal path. (RF)

Circled numbers are waveform references.

The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used.

When replacing components identified by ◪, make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by ⋈ and repeat the adjustment until the specified value is achieved.

(Refer to adjustments in Sections 3-1 and 3-2.)

When replacing the parts listed in the table below, it is important to perform the related adjustments.

| Part Replaced (◪) | Adjustment (⋈) |
|---|---|
| **D BOARD**<br>T8001 (RHT), IC8002, IC8004, IC8005, PH8003, R8014, R8015, R8017, R8060, R8012 | **HV REGULATOR**<br>RV8002 |
| **D BOARD**<br>T8001 (RHT), D8022, IC8001, IC8014, R8008, R8016, R8046, R8052, R8072, R8078, R8079, R8165, R8019 | **HV HOLD DOWN**<br>RV8002 |

## REFERENCE INFORMATION

| | | |
|---|---|---|
| **RESISTOR** | **: RN** | **METAL FILM** |
| | **: RC** | **SOLID** |
| | **: FPRD** | **NONFLAMMABLE CARBON** |
| | **: FUSE** | **NONFLAMMABLE FUSIBLE** |
| | **: RW** | **NONFLAMMABLE WIREWOUND** |
| | **: RS** | **NONFLAMMABLE METAL OXIDE** |
| | **: RB** | **NONFLAMMABLE CEMENT** |
| | **: ※** | **ADJUSTMENT RESISTOR** |
| **COIL** | **: LF-8L** | **MICRO INDUCTOR** |
| **CAPACITOR** | **: TA** | **TANTALUM** |
| | **: PS** | **STYROL** |
| | **: PP** | **POLYPROPYLENE** |
| | **: PT** | **MYLAR** |
| | **: MPS** | **METALIZED POLYESTER** |
| | **: MPP** | **METALIZED POLYPROPYLENE** |
| | **: ALB** | **BIPOLAR** |
| | **: ALT** | **HIGH TEMPERATURE** |
| | **: ALR** | **HIGH RIPPLE** |

Terminal name of semiconductors in silk screen printed circuit ( * )

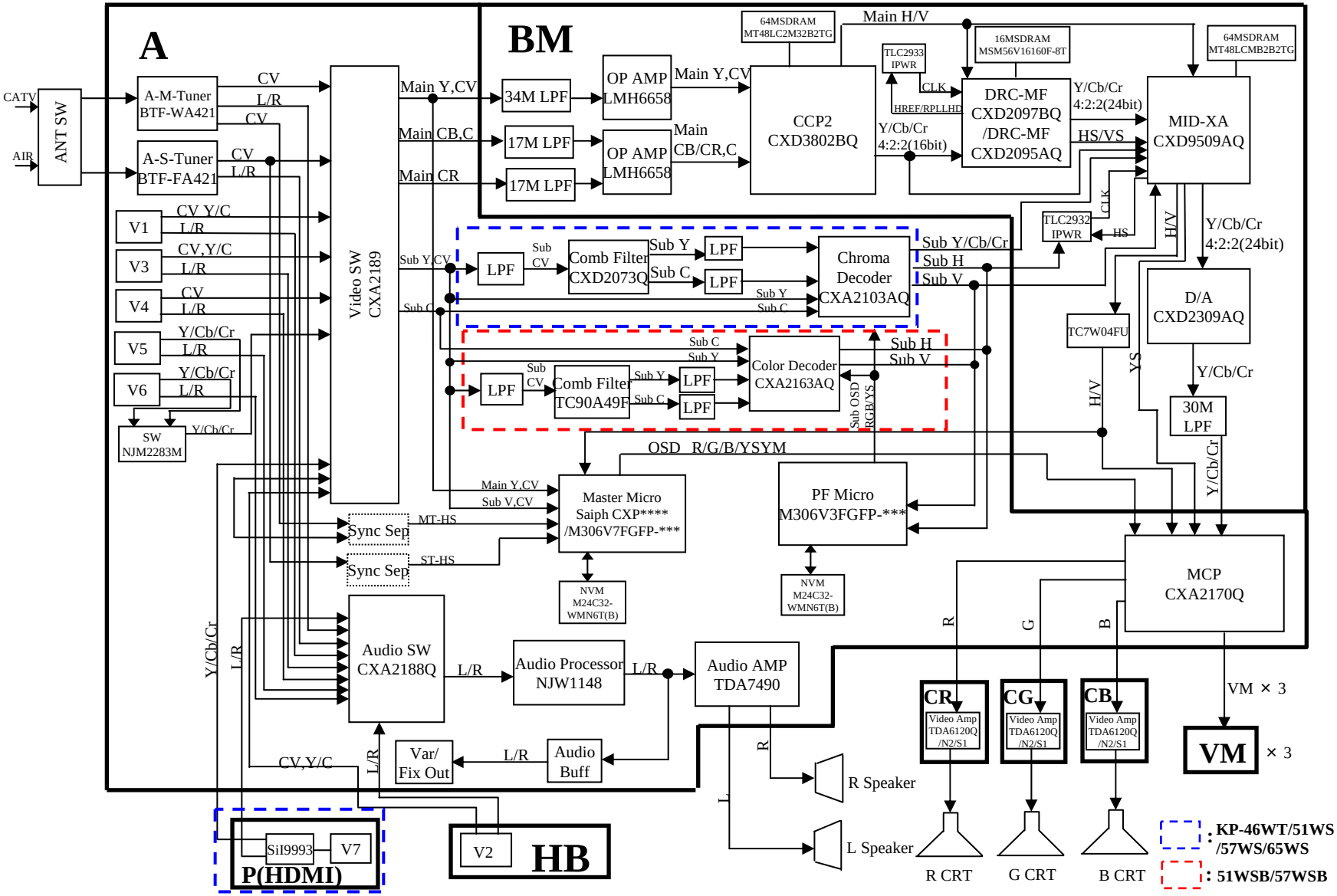
| | Device | Printed symbol | Terminal name | Circuit |
|---|---|---|---|---|
| ① | Transistor | | Collector<br>Base Emitter | |
| ② | Transistor | | Collector<br>Base Emitter | |
| ③ | Diode | | Cathode Anode | |
| ④ | Diode | | Cathode<br>Anode (NC) | |
| ⑤ | Diode | | Cathode<br>Anode (NC) | |
| ⑥ | Diode | | Common<br>Anode Cathode | |
| ⑦ | Diode | | Common<br>Anode Cathode | |
| ⑧ | Diode | | Common<br>Anode Anode | |
| ⑨ | Diode | | Common<br>Anode Anode | |
| ⑩ | Diode | | Common<br>Cathode Cathode | |
| ⑪ | Diode | | Common<br>Cathode Cathode | |
| ⑫ | Diode | | Anode Cathode<br>Anode Anode<br>Cathode Anode | |
| ⑬ | Transistor (FET) | | Drain Source<br>Gate | |
| ⑭ | Transistor (FET) | | Drain Source<br>Gate | |
| ⑮ | Transistor (FET) | | □ Source<br>□ Drain<br>□ Gate | |
| ⑯ | Transistor | | □ Emitter<br>□ Collector<br>□ Base | |
| ⑰ | Transistor | | C2 B1 E1<br>E2 B2 C1 | |
| ⑱ | Transistor | | C1 B2 E2<br>E1 B1 C2 | |
| ⑲ | Transistor | | C1 B2 E2<br>E1 B1 C2 | |
| ⑳ | Transistor | | C1 B2 E2<br>E1 B1 C2 | |
| ㉑ | Transistor | | E2 B1 E1<br>C2 C1(B2) | |
| ㉒ | Transistor | | (B2)<br>B1 E1 E2<br>C1 C2 | |
| ㉓ | Transistor | | (B2)<br>E2 E1 B1<br>C2 C1 | |
| - | Discrete semiconductor | | | |

(Chip semiconductors that are not actually used are included.)

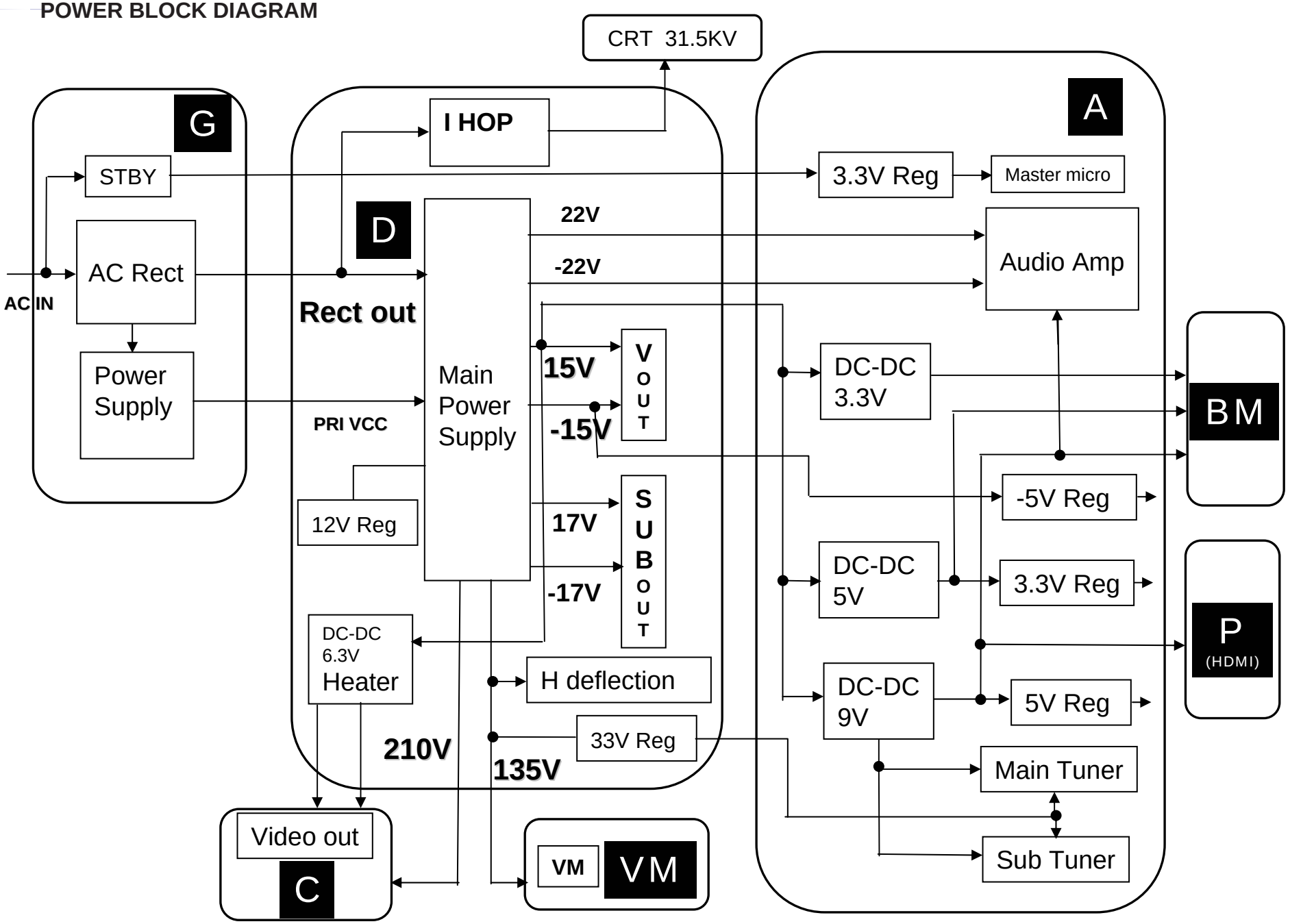
Ver.1.6

## 5-3. BLOCK DIAGRAMS

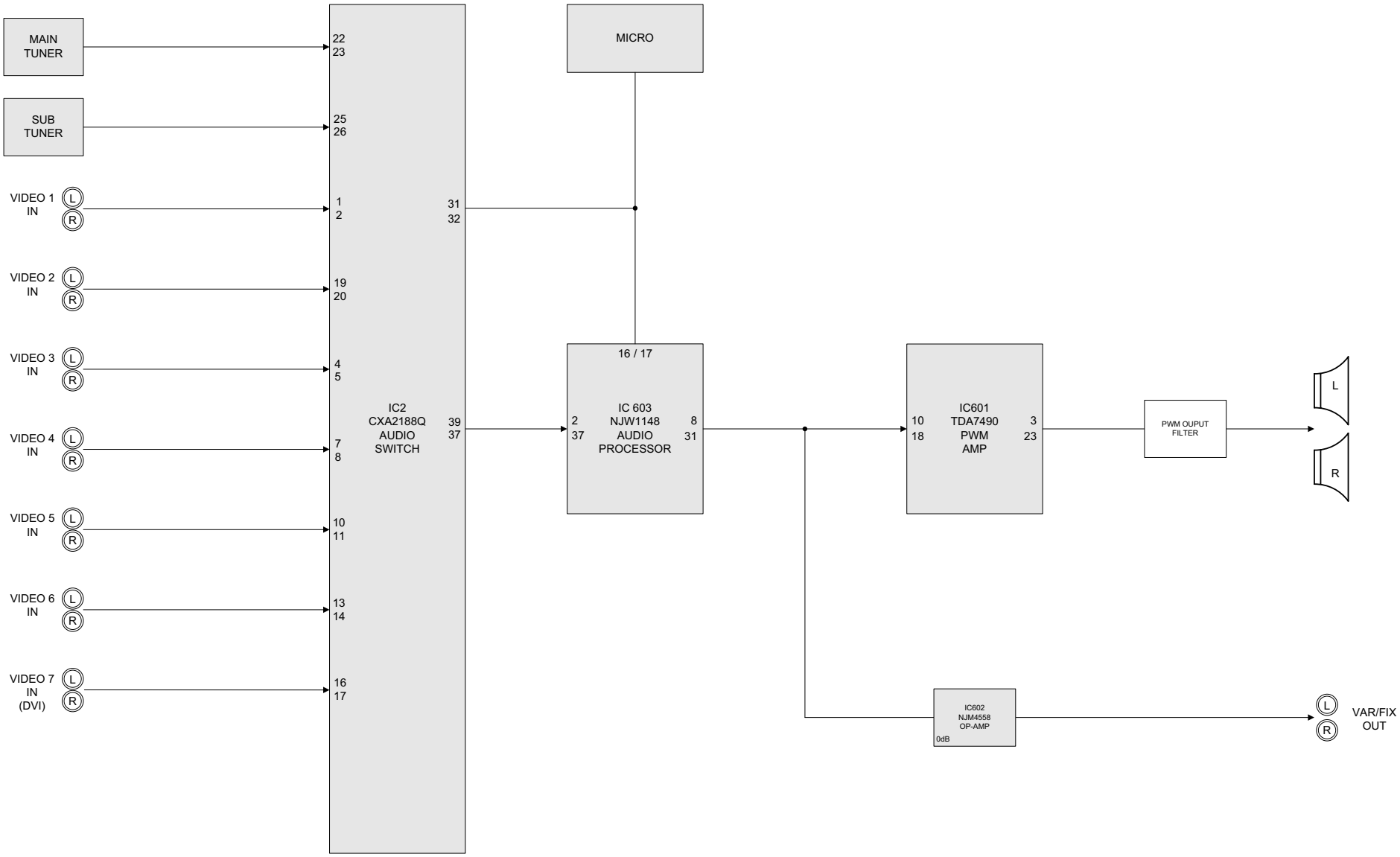
### SIGNAL FLOW BLOCK DIAGRAM



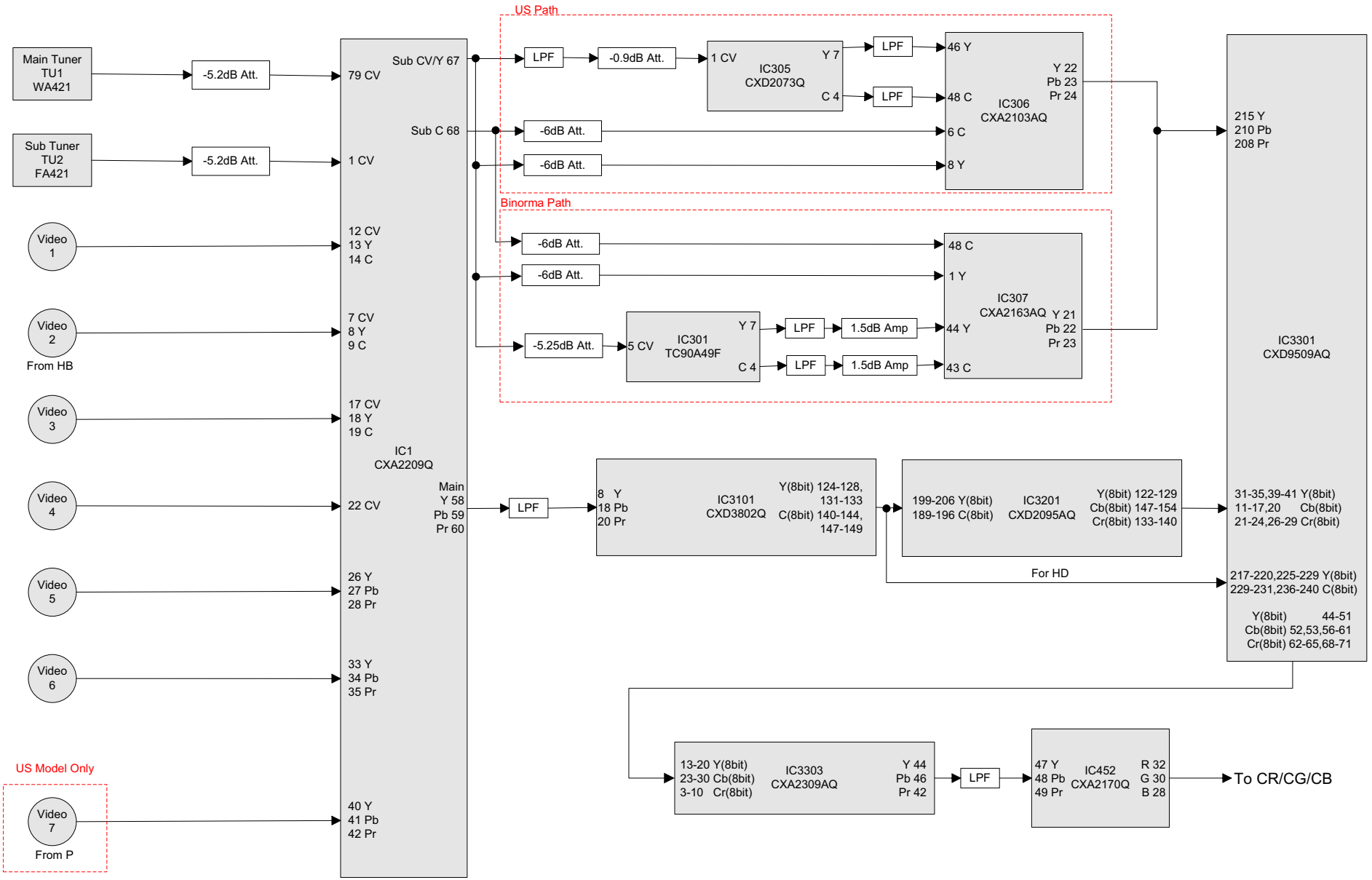
## POWER BLOCK DIAGRAM



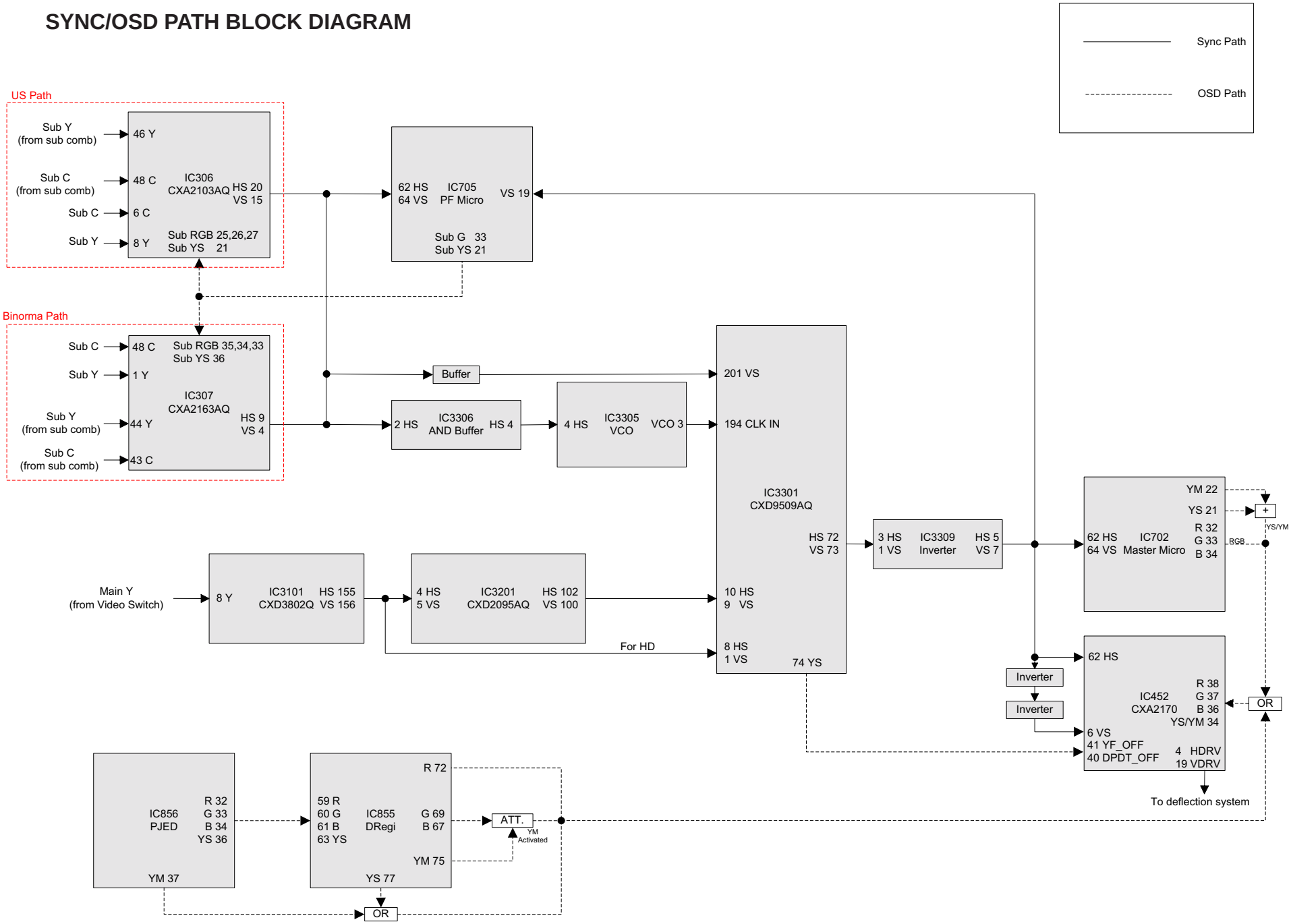
# AUDIO SIGNAL PATH BLOCK DIAGRAM



# VIDEO PATH BLOCK DIAGRAM

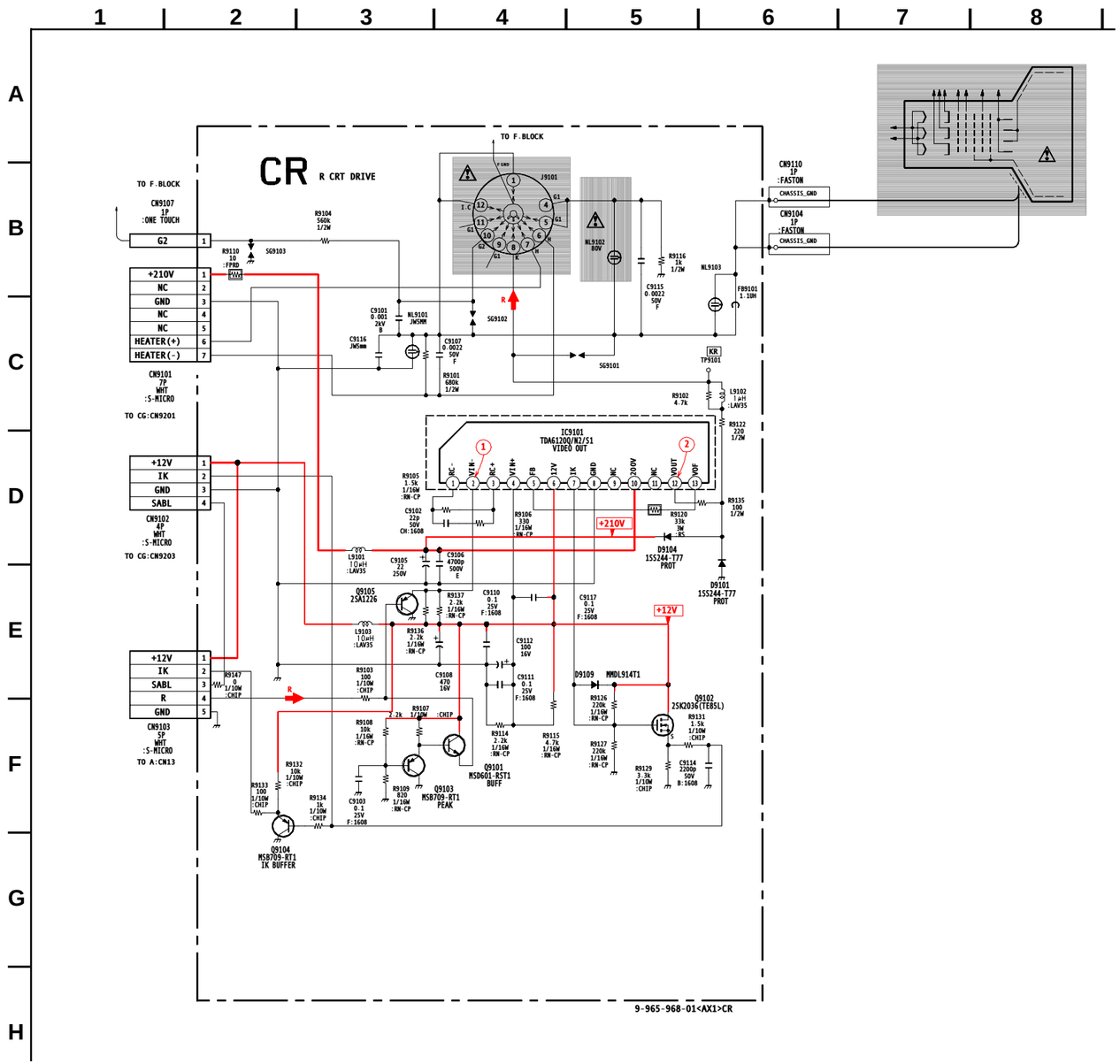


# SYNC/OSD PATH BLOCK DIAGRAM

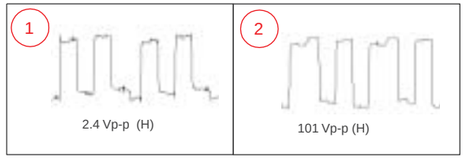


## 5-4. SCHEMATICS AND SUPPORTING INFORMATION

### CR BOARD SCHEMATIC DIAGRAM




### CR BOARD WAVEFORMS




### CR BOARD IC VOLTAGE LIST

| IC9101 | | | |
|---|---|---|---|
| PIN | VOLT | PIN | VOLT |
| 1 | 2.0 | 8 | GND |
| 2 | 2.7 | 9 | N/C |
| 3 | 3.4 | 10 | 200.0 |
| 4 | 4.1 | 11 | N/C |
| 5 | 2.6 | 12 | 157.7 |
| 6 | 12.0 | 13 | 158.2 |
| 7 | 7.0 | All voltages are in V. | |

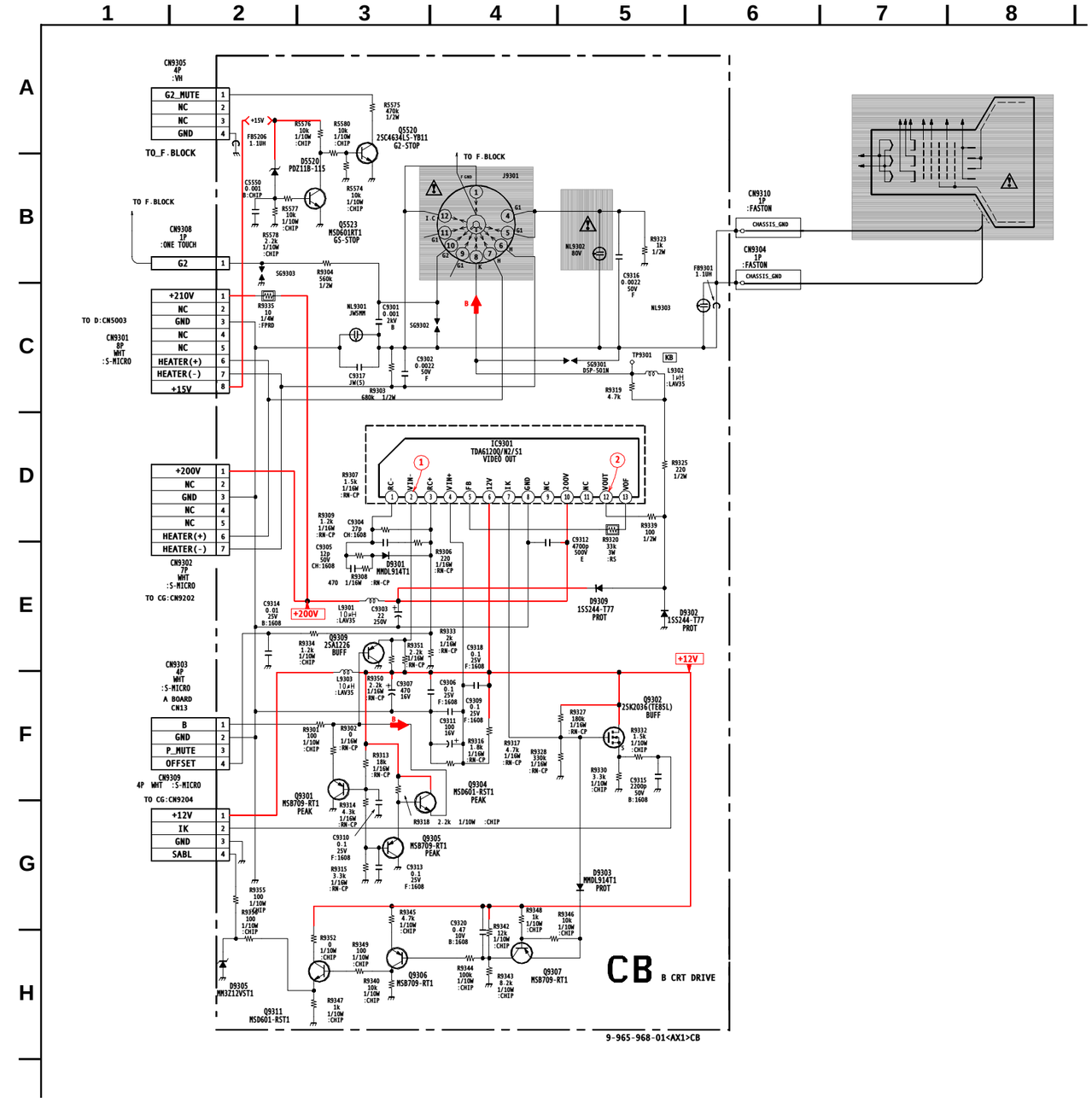
### CR BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E |
|---|---|---|---|
| Q9101 | 2.3 | 12.0 | 6.3 |
| Q9103 | 1.7 | GND | 2.3 |
| Q9104 | 8.4 | GND | 8.5 |
| Q9105 | 2.3 | GND | 2.9 |

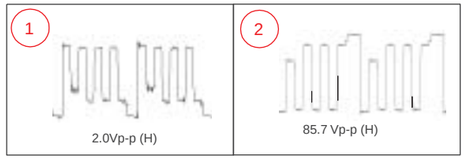
| | G | D | S |
|---|---|---|---|
| Q9102 | 7.0 | 12.0 | 5.7 |

All voltages are in V.

## CB BOARD SCHEMATIC DIAGRAM




## CB BOARD WAVEFORMS




## CB BOARD IC VOLTAGE LIST

| IC9301 | | | |
|---|---|---|---|
| PIN | VOLT | PIN | VOLT |
| 1 | 2.1 | 8 | GND |
| 2 | 2.9 | 9 | N/C |
| 3 | 1.6 | 10 | 200.0 |
| 4 | 2.9 | 11 | N/C |
| 5 | 2.5 | 12 | 161.8 |
| 6 | 12.0 | 13 | 144.5 |
| 7 | 7.3 | | |

All voltages are in V.

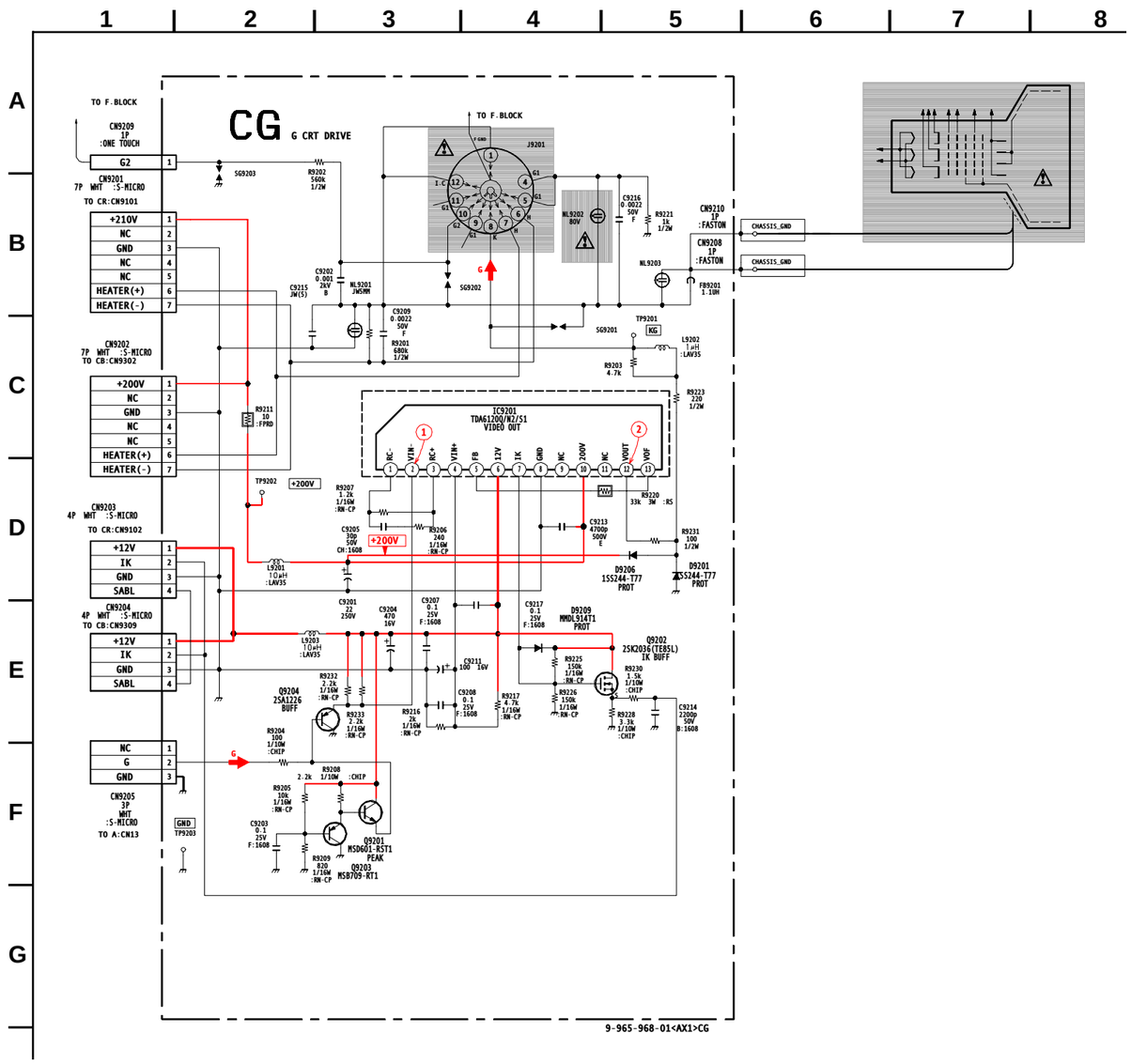
## CB BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E |
|---|---|---|---|
| Q5520 | 0.0 | 566.0 | GND |
| Q5523 | 0.0 | 1.9 | GND |
| Q9301 | 1.7 | GND | 2.3 |
| Q9304 | 2.3 | 12.0 | 6.3 |
| Q9305 | 1.7 | GND | 2.3 |
| Q9306 | 7.3 | 7.7 | 7.8 |
| Q9307 | 7.7 | 11.7 | 7.0 |
| Q9309 | 2.3 | GND | 2.9 |
| Q9311 | 0.0 | 12.1 | 7.6 |

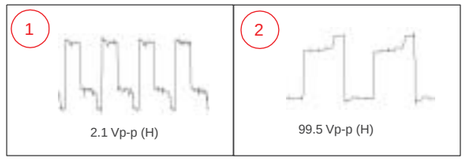
| | G | D | S |
|---|---|---|---|
| **Q9302** | 7.3 | 12.0 | 6.0 |

All voltages are in V.

## CG BOARD SCHEMATIC DIAGRAM




## CG BOARD WAVEFORMS




## CG BOARD IC VOLTAGE LIST

| IC9201 | | | |
|---|---|---|---|
| PIN | VOLT | PIN | VOLT |
| 1 | 1.9 | 8 | GND |
| 2 | 2.6 | 9 | N/C |
| 3 | 3.1 | 10 | 200.0 |
| 4 | 3.8 | 11 | N/C |
| 5 | 2.5 | 12 | 155.1 |
| 6 | 12.0 | 13 | 159.2 |
| 7 | 7.6 | | |

All voltages are in V.

## CG BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E |
|---|---|---|---|
| Q9201 | 2.3 | 12.0 | 6.3 |
| Q9203 | 1.7 | GND | 2.3 |
| Q9204 | 2.3 | GND | 2.9 |

| | G | D | S |
|---|---|---|---|
| Q9202 | 7.6 | 12.0 | 6.3 |

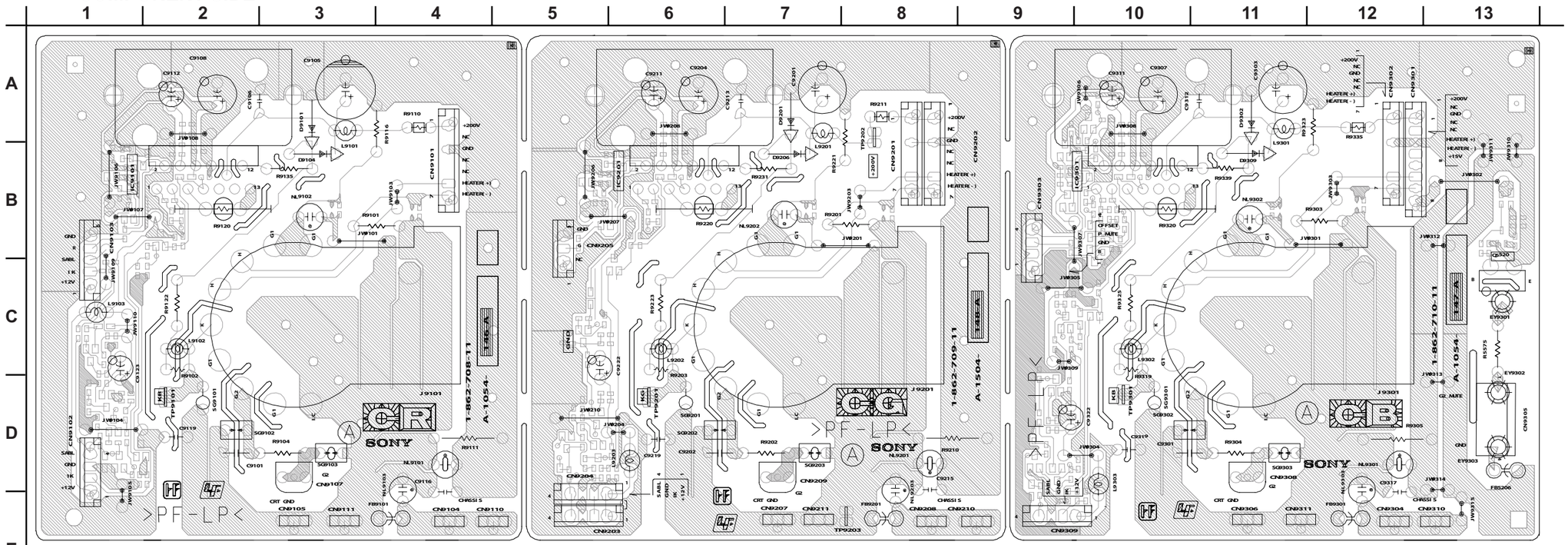
All voltages are in V.

CR [R CRT DRIVE]

CB [B CRT DRIVE]

CG [G CRT DRIVE]

## COMPONENT SIDE

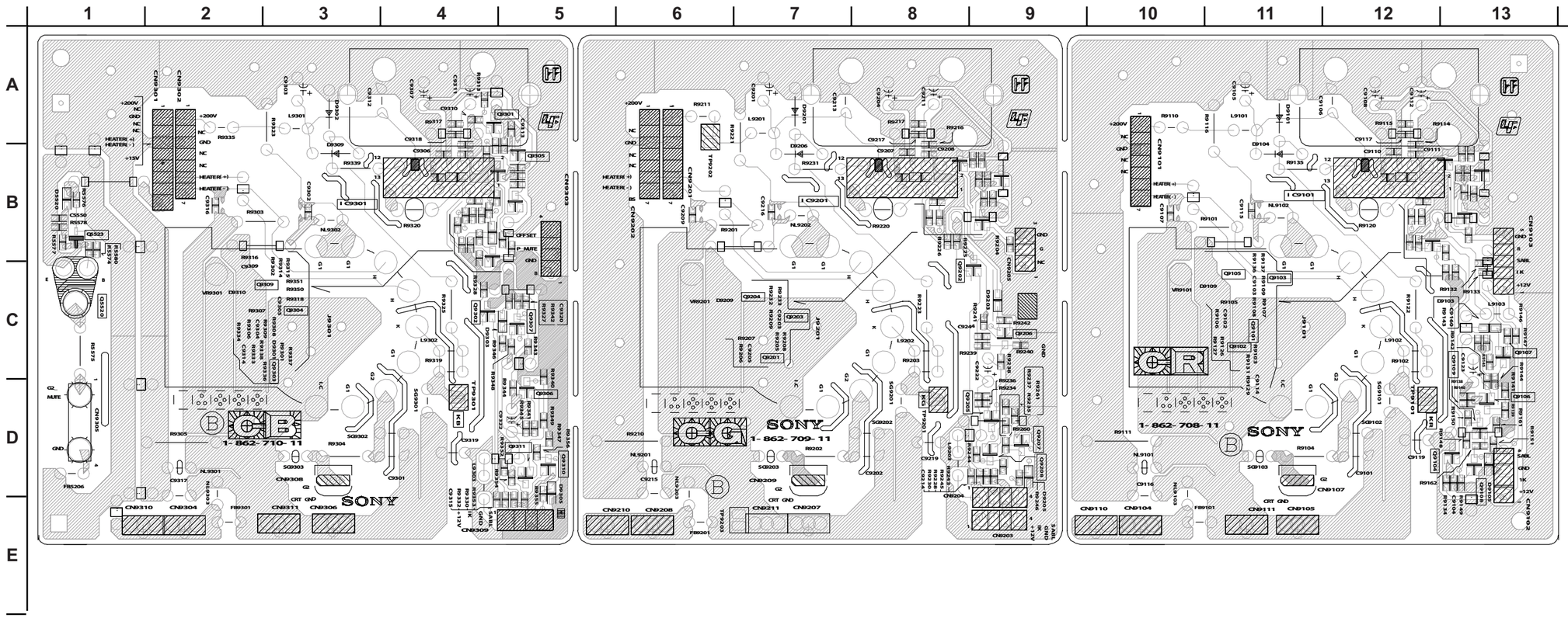


CR [R CRT DRIVE]

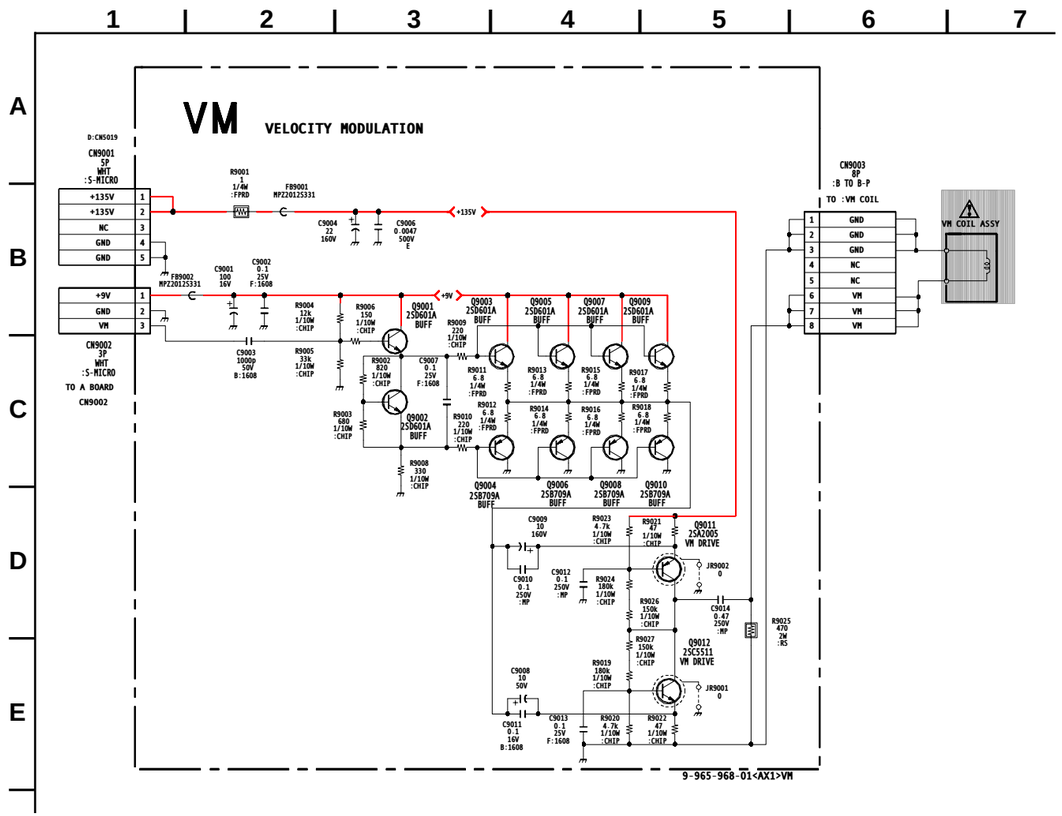
CB [B CRT DRIVE]

CG [G CRT DRIVE]

## CONDUCTOR SIDE



## VM BOARD SCHEMATIC DIAGRAM

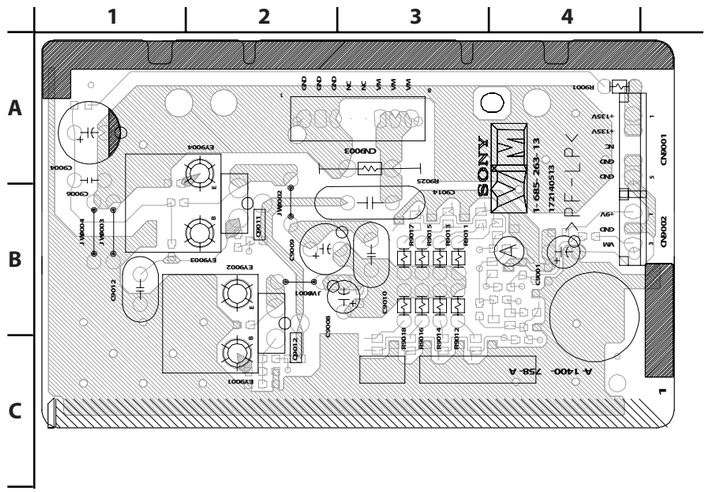



## VM BOARD TRANSISTOR VOLTAGE LIST

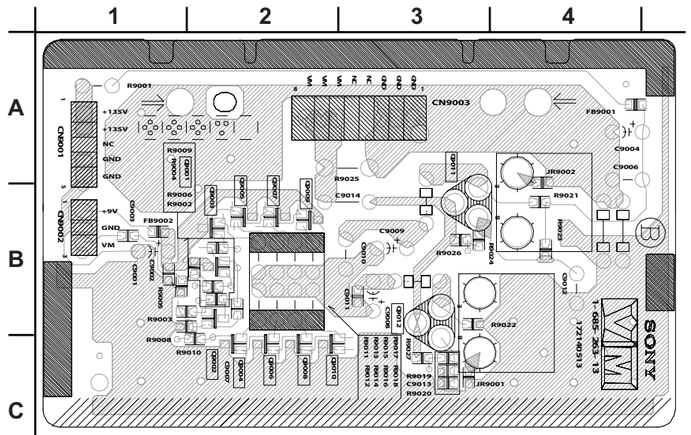
| | B | C | E |
|---|---|---|---|
| **Q9001** | 0.0 | 9.0 | 5.2 |
| **Q9002** | 3.6 | 5.2 | 4.5 |
| **Q9003** | 5.1 | 9.0 | 4.5 |
| **Q9004** | 3.6 | GND | 4.3 |
| **Q9005** | 5.1 | 9.0 | 4.5 |
| **Q9006** | 3.6 | GND | 4.3 |
| **Q9007** | 5.1 | 9.0 | 4.5 |
| **Q9008** | 3.6 | GND | 4.3 |
| **Q9009** | 5.1 | 9.0 | 4.5 |
| **Q9010** | 3.6 | GND | 4.3 |
| **Q9011** | 133 | 66.7 | 134 |
| **Q9012** | 0 | 66.7 | 0 |

All voltages are in V.

## VM [VELOCITY MODULATION]
### COMPONENT SIDE

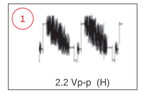


## VM [VELOCITY MODULATION]
### CONDUCTOR SIDE



## A BOARD SCHEMATIC DIAGRAM (1 OF 6)

## A BOARD WAVEFORMS

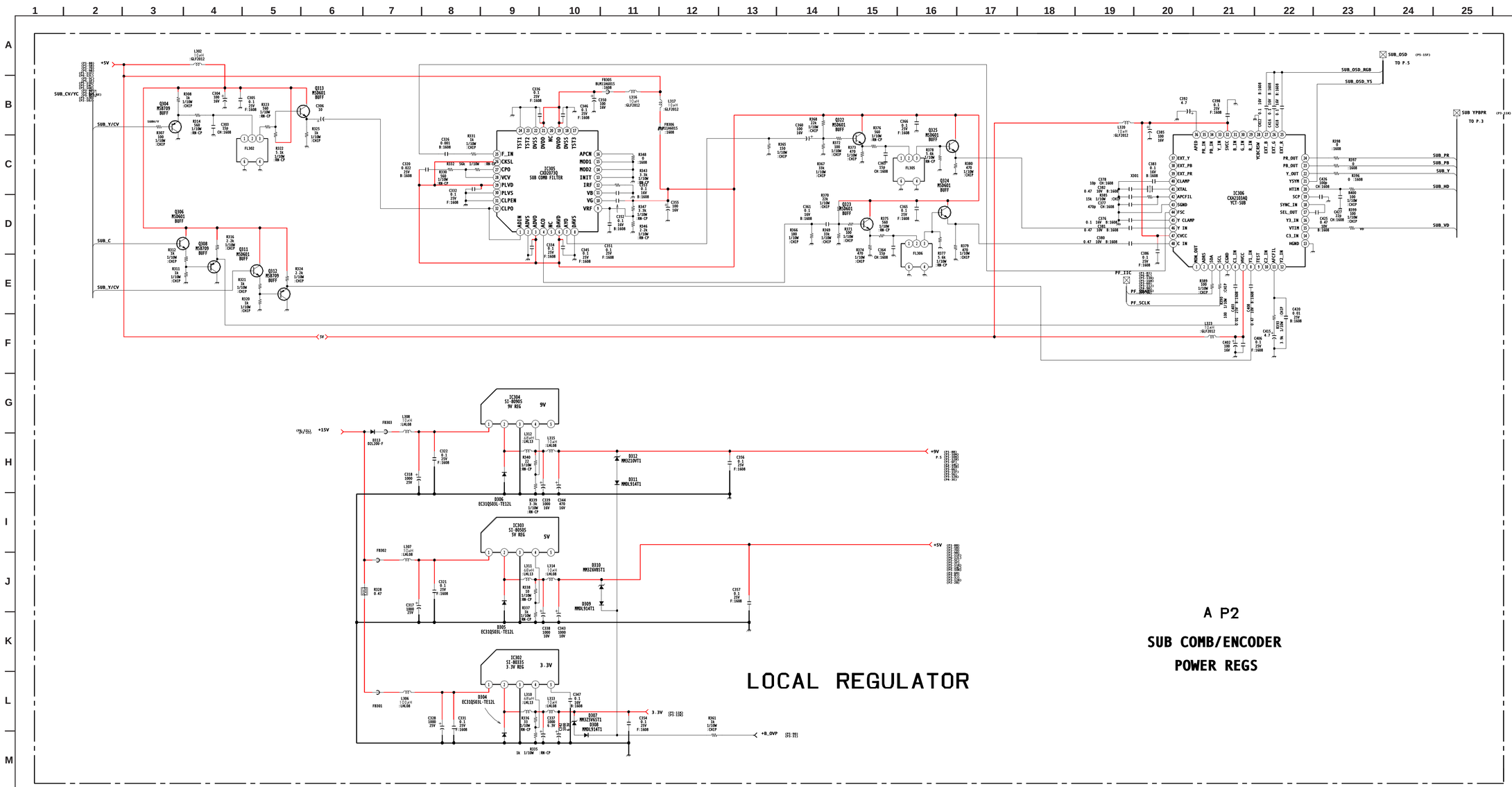



A P1

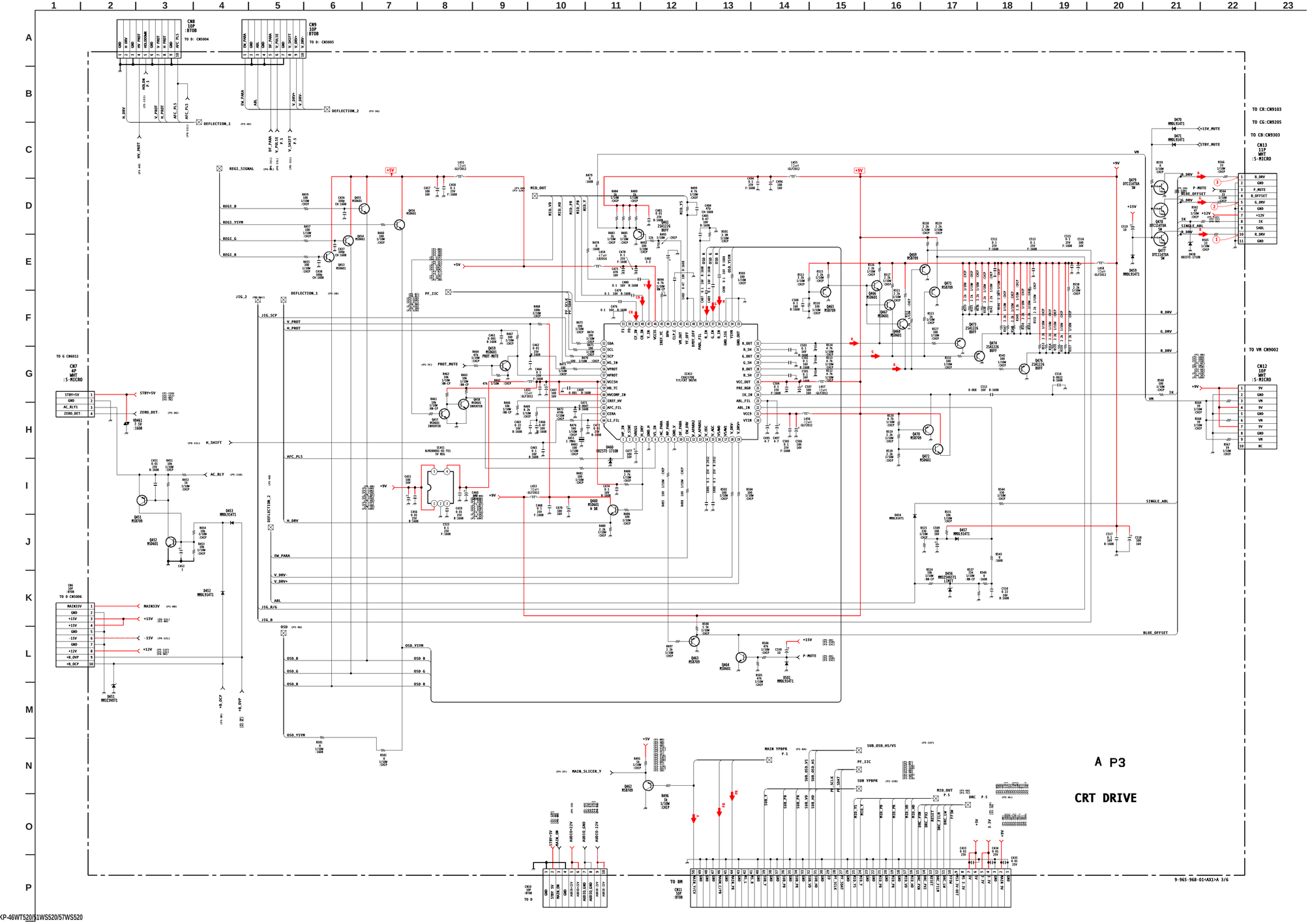
TERMINAL BLOCK
TUNER

9-965-968-01<AX1>A 1/6

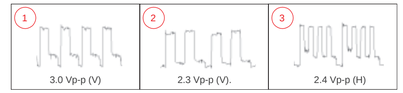
## A BOARD SCHEMATIC DIAGRAM (2 OF 6)



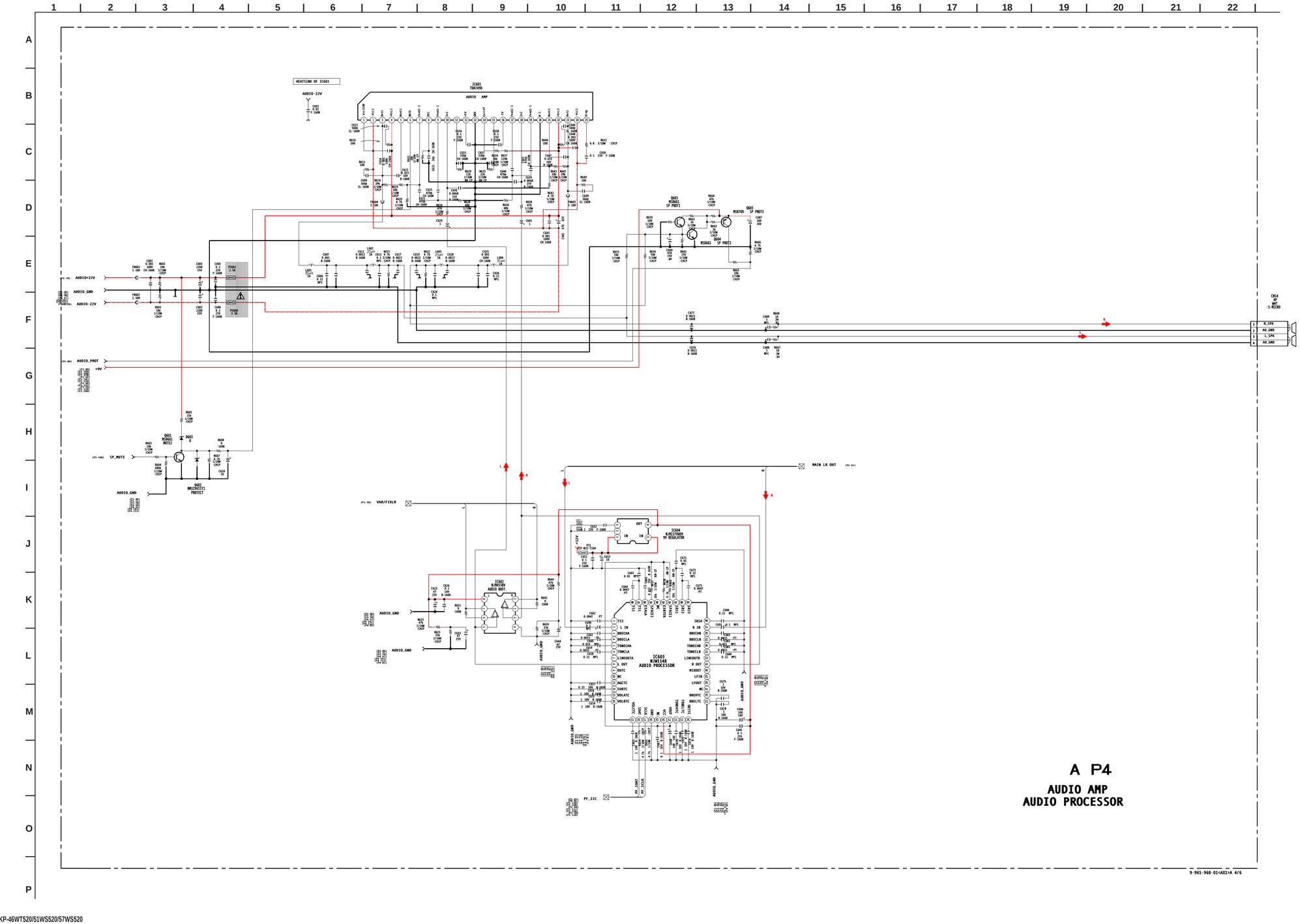
## A BOARD SCHEMATIC DIAGRAM (3 OF 6)




## A BOARD WAVEFORMS



## A BOARD SCHEMATIC DIAGRAM (4 OF 6)

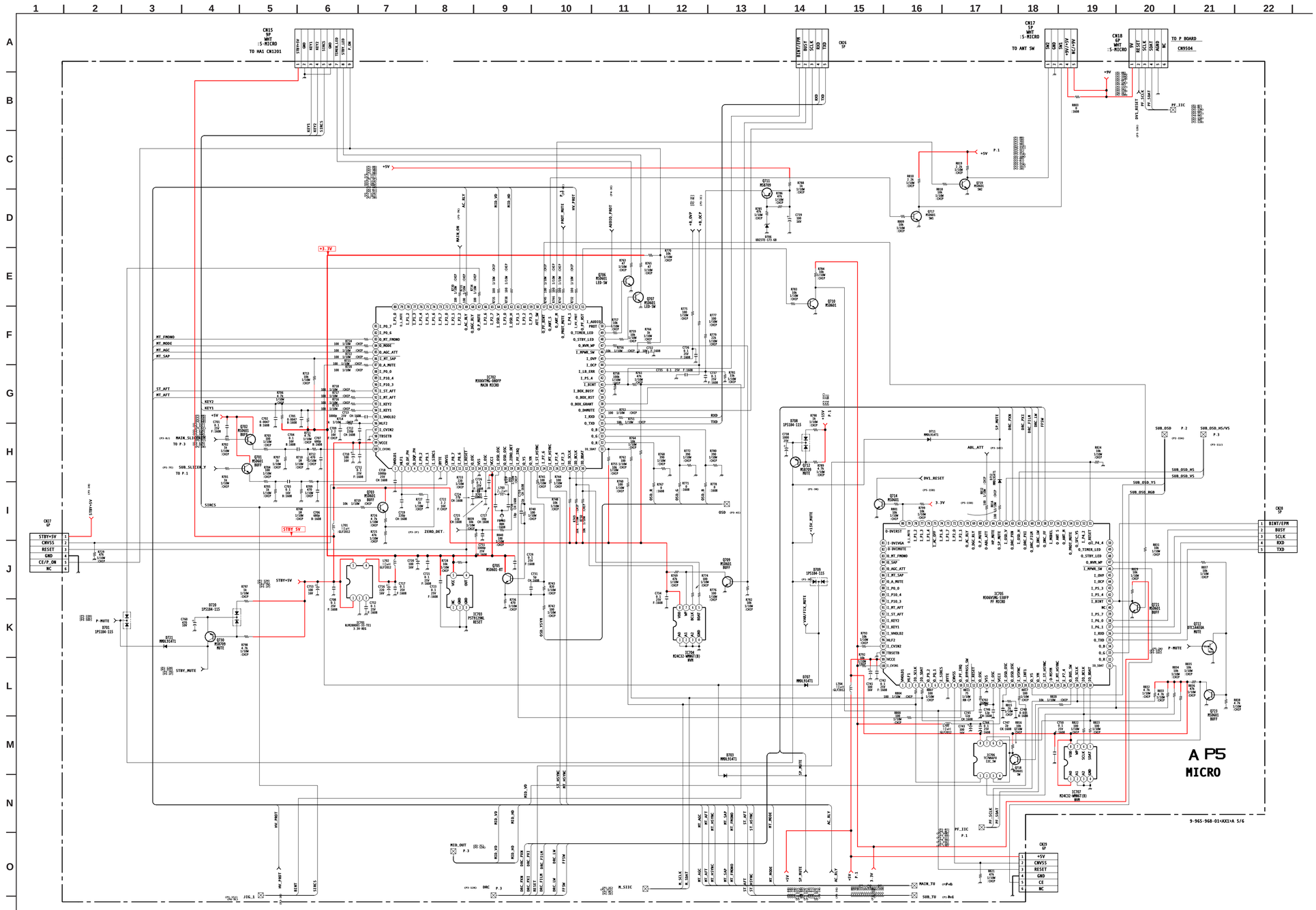



**A P4**

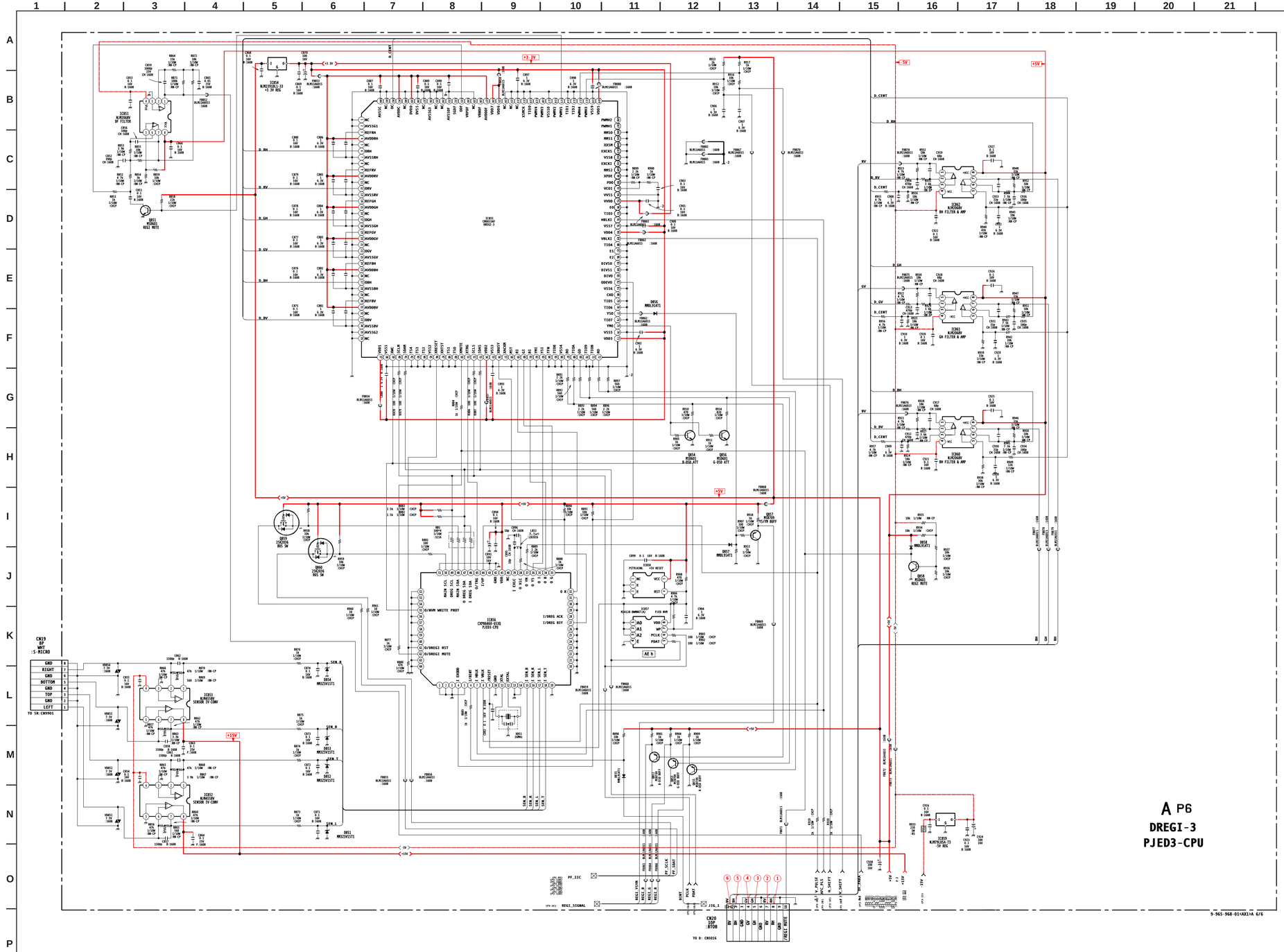
**AUDIO AMP**
**AUDIO PROCESSOR**

9-965-968-01<AX1>A 4/6

## A BOARD SCHEMATIC DIAGRAM (5 OF 6)



## A BOARD SCHEMATIC DIAGRAM (6 OF 6)




## A BOARD WAVEFORMS

| | | |
|---|---|---|
| 1 2.1 Vp-p (V) | 2 2.3 Vp-p (V) | 3 2.1 Vp-p (V) |
| 4 2.5 Vp-p (V) | 5 2.0 Vp-p (V) | 6 2.3 Vp-p (V) |

## A BOARD IC VOLTAGE LIST

| IC1 | | 46 | GND | 11 | 4.5 | 2 | 9.0 | 8 | 2.8 | 5 | 9.0 | 45 | 4.2 | IC602 | | 36 | 4.3 | 2 | 0.0 | IC854 | | 41 | 2.2 | 88 | GND | 135 | GND | 36 | 0.0 | IC859 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIN | VOLT | 47 | 1.1 | 12 | GND | 3 | GND | 9 | NC | IC452 | | 46 | 5.0 | PIN | VOLT | 37 | 4.3 | 3 | 0.0 | PIN | VOLT | 42 | GND | 89 | 0.0 | 136 | GND | 37 | 0.0 | PIN | VOLT |
| 1 | 2.4 | 48 | 0.0 | 13 | 4.5 | 4 | 9.0 | 10 | NC | PIN | VOLT | 47 | 3.8 | 1 | 4.8 | 38 | 0 | 4 | GND | I | 5.0 | 43 | GND | 90 | 3.3 | 137 | GND | 38 | 2.4 | I | -15.0 |
| 2 | GND | 49 | 0.0 | 14 | 4.5 | 5 | NC | 11 | 2.3 | 1 | 0.0 | 48 | 4.4 | 2 | 4.5 | 39 | 4.3 | 5 | 5.0 | O | 3.3 | 44 | GND | 91 | GND | 138 | GND | 39 | 2.7 | O | -5.0 |
| 3 | 2.0 | 50 | 5.0 | 15 | GND | IC305 | | 12 | NC | 2 | N/C | 49 | 5.2 | 3 | 4.5 | 40 | 4.3 | 6 | 5.0 | G | GND | 45 | GND | 92 | GND | 139 | 3.3 | 40 | N/C | G | GND |
| 4 | 0.0 | 51 | 0.0 | 16 | 5.2 | PIN | VOLT | 13 | GND | 3 | 0.0 | 50 | N/C | 4 | GND | 41 | 0 | 7 | 0.0 | IC855 | | 46 | 5.0 | 93 | GND | 140 | GND | 41 | 5.0 | IC860 | |
| 5 | 0.0 | 52 | 0.0 | 17 | 0.0 | 1 | 1.0 | 14 | NC | 4 | 3.1 | 51 | GND | 5 | 4.6 | 42 | 4.3 | 8 | 5.0 | PIN | VOLT | 47 | GND | 94 | GND | 141 | 3.3 | 42 | GND | PIN | VOLT |
| 6 | 0.0 | 53 | NC | 18 | GND | 2 | GND | 15 | 0.5 | 5 | GND | 52 | 3.4 | 6 | 4.5 | 43 | 4.3 | IC707 | | 1 | GND | 48 | GND | 95 | 3.3 | 142 | 1.6 | 43 | GND | 1 | 2.8 |
| 7 | 2.0 | 54 | NC | 19 | 4.5 | 3 | 4.8 | 16 | NC | 6 | 3.1 | 53 | 3.4 | 7 | 4.8 | 44 | N/C | PIN | VOLT | 2 | GND | 49 | GND | 96 | GND | 143 | GND | 44 | 0.0 | 2 | 2.7 |
| 8 | 0.0 | 55 | 0.0 | 20 | 4.5 | 4 | 1.0 | 17 | 2 | 7 | N/C | 54 | 0.6 | 8 | 9.0 | 45 | 4.3 | 1 | 5.0 | 3 | 2.2 | 50 | 4.3 | 97 | 1.6 | 144 | GND | 45 | 0.0 | 3 | 2.6 |
| 9 | 0.0 | 56 | 0.0 | 21 | GND | 5 | NC | 18 | 3.1 | 8 | 3.6 | 55 | 8.9 | IC603 | | 46 | 4.3 | 2 | GND | 4 | 3.3 | 51 | 0.0 | 98 | 1.6 | IC856 | | 46 | 2.2 | 4 | -5.0 |
| 10 | GND | 57 | 2.9 | 22 | 0.0 | 6 | 4.8 | 19 | 2.0 | 9 | GND | 56 | 4.3 | PIN | VOLT | 47 | 4.3 | 3 | GND | 5 | GND | 52 | 2.5 | 99 | GND | PIN | VOLT | 47 | 2.3 | 5 | 1.8 |
| 11 | 0.0 | 58 | 0.0 | 23 | 0.0 | 7 | 0.5 | 20 | 0.5 | 10 | N/C | 57 | 4.9 | 1 | 4.3 | 48 | 4.3 | 4 | GND | 6 | 1.7 | 53 | 2.5 | 100 | GND | 1 | GND | 48 | 4.3 | 6 | 1.8 |
| 12 | 0.0 | 59 | 0.0 | 24 | GND | 8 | GND | 21 | 0.0 | 11 | 0.0 | 58 | 3.7 | 2 | 4.3 | IC604 | | 5 | 4.4 | 7 | GND | 54 | 3.3 | 101 | GND | 2 | GND | 49 | 2.3 | 7 | 0.0 |
| 13 | 0.0 | 60 | 2.4 | 25 | 4.5 | 9 | 1.9 | 22 | 1.8 | 12 | N/C | 59 | 1.5 | 3 | 0.0 | PIN | VOLT | 6 | 0.0 | 8 | GND | 55 | GND | 102 | GND | 3 | GND | 50 | 4.4 | 8 | 5.0 |
| 14 | 2.5 | 61 | 5.0 | 26 | 4.5 | 10 | 2.6 | 23 | 2.1 | 13 | N/C | 60 | 1.5 | 4 | 4.3 | 1 | 11.0 | 7 | 4.9 | 9 | 2.2 | 56 | 0.0 | 103 | GND | 4 | 2.5 | 51 | GND | IC861 | |
| 15 | 0.0 | 62 | NC | 27 | 9.0 | 11 | 0.9 | 24 | 2.0 | 14 | 2.4 | 61 | 8.9 | 5 | 0.0 | 2 | GND | 8 | 5.0 | 10 | 3.3 | 57 | 0.0 | 104 | GND | 5 | GND | 52 | GND | PIN | VOLT |
| 16 | 0.0 | 63 | NC | 28 | 4.5 | 12 | 2.0 | 25 | 3.4 | 15 | 4.9 | 62 | 2.9 | 6 | 0.0 | 3 | 0.0 | IC851 | | 11 | GND | 58 | GND | 105 | GND | 6 | 5.0 | 53 | GND | 1 | 2.8 |
| 17 | 0 | 64 | 2.5 | 29 | 4.5 | 13 | GND | 26 | 3.4 | 16 | N/C | 63 | 2.9 | 7 | 4.3 | 4 | 9.0 | PIN | VOLT | 12 | 1.7 | 59 | 0.0 | 106 | GND | 7 | 0.0 | 54 | GND | 2 | 2.7 |
| 18 | 2.0 | 65 | 1.1 | 30 | GND | 14 | GND | 27 | 3.4 | 17 | N/C | 64 | 2.7 | 8 | 0.0 | 5 | 11.0 | 1 | 5.0 | 13 | GND | 60 | 0.0 | 107 | N/C | 8 | 0.0 | 55 | 5.0 | 3 | 2.6 |
| 19 | 0.0 | 66 | 2.9 | 31 | 4.8 | 15 | GND | 28 | GND | 18 | 1.1 | IC601 | | 9 | N/C | IC701 | | 2 | 2.2 | 14 | 2.2 | 61 | 0.0 | 108 | N/C | 9 | 0.0 | 56 | GND | 4 | -5.0 |
| 20 | GND | 67 | 1.3 | 32 | 4.7 | 16 | GND | 29 | NC | 19 | 4.9 | PIN | VOLT | 10 | N/C | PIN | VOLT | 3 | GND | 15 | 3.3 | 62 | GND | 109 | 3.3 | 10 | GND | 57 | GND | 5 | 1.8 |
| 21 | GND | 68 | 2.4 | 33 | 4.5 | 17 | NC | 30 | NC | 20 | N/C | 1 | -22.00 | 11 | 1.4 | 1 | 5.0 | 4 | 1.1 | 16 | GND | 63 | 0.0 | 110 | GND | 11 | 2.2 | 58 | N/C | 6 | 1.8 |
| 22 | 2.0 | 69 | 2.4 | 34 | GND | 18 | GND | 31 | NC | 21 | 9.0 | 2 | -22.00 | 12 | 0.8 | 2 | GND | 5 | 1.3 | 17 | 1.7 | 64 | GND | 111 | 0.4 | 12 | 2.1 | 59 | GND | 7 | 0.0 |
| 23 | 2.0 | 70 | 0.0 | 35 | 4.5 | 19 | 5.0 | 32 | 5.0 | 22 | 3.4 | 3 | 0.0 | 13 | 2.9 | 3 | 3.3 | 6 | 0.0 | 18 | GND | 65 | GND | 112 | 1.2 | 13 | GND | 60 | GND | 8 | 5.0 |
| 24 | 0.0 | 71 | 0.0 | 36 | GND | 20 | NC | 33 | NC | 23 | 5.0 | 4 | 22.1 | 14 | 2.9 | 4 | 3.3 | 7 | 0.0 | 19 | 2.2 | 66 | GND | 113 | GND | 14 | GND | 61 | 5.0 | IC862 | |
| 25 | GND | 72 | NC | 37 | 4.5 | 21 | 5.0 | 34 | NC | 24 | 0.0 | 5 | 9.1 | 15 | 2.8 | 5 | 5.0 | 8 | -5.0 | 20 | 3.3 | 67 | 0.0 | 114 | GND | 15 | 2.0 | 62 | 5.0 | PIN | VOLT |
| 26 | 0.0 | 73 | NC | 38 | 4.5 | 22 | GND | 35 | NC | 25 | N/C | 6 | 5.1 | 16 | 4.6 | IC703 | | IC852 | | 21 | GND | 68 | GND | 115 | 0.0 | 16 | 0.5 | 63 | GND | 1 | 2.8 |
| 27 | 0.0 | 74 | 0.0 | 39 | 4.5 | 23 | NC | 36 | 2.6 | 26 | 9.0 | 7 | 0.0 | 17 | 0 | PIN | VOLT | PIN | VOLT | 22 | 1.7 | 69 | GND | 116 | N/C | 17 | 5 | 64 | GND | 2 | 2.7 |
| 28 | 2.5 | 75 | 0.0 | 40 | GND | 24 | GND | 37 | NC | 27 | 0.9 | 8 | 2.7 | 18 | GND | 1 | N/C | 1 | 15.0 | 23 | GND | 70 | GND | 117 | GND | 18 | 1.7 | IC857 | | 3 | 2.6 |
| 29 | GND | 76 | 4.8 | IC302 | | 25 | 2.4 | 38 | NC | 28 | 0.3 | 9 | 0.0 | 19 | N/C | 2 | GND | 2 | 2.2 | 24 | 2.2 | 71 | GND | 118 | N/C | 19 | GND | PIN | VOLT | 4 | -5.0 |
| 30 | GND | 77 | 4.7 | PIN | VOLT | 26 | 5.0 | 39 | NC | 29 | 5.0 | 10 | 0.0 | 20 | 9.0 | 3 | GND | 3 | GND | 25 | 3.3 | 72 | 0.0 | 119 | N/C | 20 | GND | 1 | 4.9 | 5 | 1.8 |
| 31 | GND | 78 | 5.0 | 1 | 15.0 | 27 | 2.2 | 40 | 1.7 | 30 | 5.7 | 11 | 0.0 | 21 | 4.3 | 4 | 3.3 | 4 | 0.0 | 26 | GND | 73 | 3.3 | 120 | GND | 21 | GND | 2 | 4.9 | 6 | 1.8 |
| 32 | GND | 79 | 2.4 | 2 | 3.3 | 28 | 2.2 | 41 | 1.7 | 31 | 1.3 | 12 | 5.3 | 22 | 3.3 | 5 | 3.3 | 5 | 0.5 | 27 | 1.7 | 74 | GND | 121 | GND | 22 | GND | 3 | 4.9 | 7 | 0.0 |
| 33 | 2.0 | 80 | NC | 3 | GND | 29 | 5.0 | 42 | 2.4 | 32 | 3.1 | 13 | GND | 23 | 3.3 | IC704 | | 6 | 0.0 | 28 | GND | 75 | 0.0 | 122 | GND | 23 | GND | 4 | GND | 8 | 5.0 |
| 34 | 2.5 | IC2 | | 4 | 3.3 | 30 | GND | 43 | GND | 33 | GND | 14 | -20.7 | 24 | 4.9 | PIN | VOLT | 7 | 2.8 | 29 | GND | 76 | GND | 123 | GND | 24 | GND | 5 | 4.6 | All voltages are in V. | |
| 35 | 2.5 | PIN | VOLT | 5 | 15.0 | 31 | GND | 44 | 0.0 | 34 | 0.0 | 15 | 0.0 | 25 | 0.0 | 1 | GND | 8 | -5.0 | 30 | 2.2 | 77 | 0.0 | 124 | GND | 25 | GND | 6 | 4.7 | | |
| 36 | GND | 1 | 4.5 | IC303 | | 32 | 1.0 | 45 | 3.1 | 35 | GND | 16 | -5.5 | 26 | 3.3 | 2 | GND | IC853 | | 31 | 3.3 | 78 | GND | 125 | 3.3 | 26 | GND | 7 | 4.7 | | |
| 37 | GND | 2 | GND | PIN | VOLT | IC306 | | 46 | 2.8 | 36 | 2.3 | 17 | 0.0 | 27 | N/C | 3 | GND | PIN | VOLT | 32 | GND | 79 | GND | 126 | 3.3 | 27 | 0.0 | 8 | 4.9 | | |
| 38 | GND | 3 | 0.0 | 1 | 15.0 | PIN | VOLT | 47 | 5.0 | 37 | 0.0 | 18 | 0.0 | 28 | N/C | 4 | GND | 1 | 15.0 | 33 | 1.7 | 80 | N/C | 127 | 3.3 | 28 | N/C | IC858 | | | |
| 39 | GND | 4 | 4.5 | 2 | 5.0 | 1 | NC | 48 | 3.1 | 38 | 2.3 | 19 | 0.0 | 29 | N/C | 5 | 4.5 | 2 | 2.2 | 34 | GND | 81 | GND | 128 | N/C | 29 | GND | PIN | VOLT | | |
| 40 | 2.1 | 5 | 4.5 | 3 | GND | 2 | NC | IC451 | | 39 | 2.1 | 20 | 0.0 | 30 | N/C | 6 | 4.5 | 3 | GND | 35 | GND | 82 | 2.5 | 129 | GND | 30 | GND | 1 | NC | | |
| 41 | 2.5 | 6 | GND | 4 | 5.0 | 3 | 4.6 | PIN | VOLT | 40 | 2.8 | 21 | 9.3 | 31 | 4.3 | 7 | 4.9 | 4 | 0.0 | 36 | GND | 83 | N/C | 130 | N/C | 31 | GND | 2 | GND | | |
| 42 | 0.0 | 7 | 4.5 | 5 | NC | 4 | 4.6 | 1 | 9.0 | 41 | 0.0 | 22 | 22.1 | 32 | N/C | 8 | 5.0 | 5 | 0.5 | 37 | 3.3 | 84 | GND | 131 | 0.0 | 32 | 0.0 | 3 | GND | | |
| 43 | 0.0 | 8 | 4.5 | IC304 | | 5 | GND | 2 | GND | 42 | 0.0 | 23 | 0.0 | 33 | 4.3 | IC706 | | 6 | 0.0 | 38 | GND | 85 | GND | 132 | N/C | 33 | 0.0 | 4 | 4.9 | | |
| 44 | 0.0 | 9 | 9.0 | PIN | VOLT | 6 | 2.8 | 3 | 5.0 | 43 | 3.3 | 24 | -22.0 | 34 | 0 | PIN | VOLT | 7 | 2.8 | 39 | 4.9 | 86 | GND | 133 | GND | 34 | 0.0 | 5 | 5.0 | | |
| 45 | GND | 10 | 4.5 | 1 | 15.0 | 7 | 4.9 | 4 | 5.0 | 44 | 0.0 | 25 | -11.6 | 35 | 4.3 | 1 | 5.0 | 8 | -5.0 | 40 | 1.9 | 87 | GND | 134 | GND | 35 | 0.0 | | | | |

## A BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E | | B | C | E | | B | C | E |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Q1** | 0.1 | 7.5 | GND | **Q313** | 3.2 | 5.0 | 2.6 | **Q603** | 0.0 | 9.0 | 0.0 |
| **Q2** | 3.5 | 0.5 | 3.3 | **Q322** | 2.7 | 5.0 | 2.1 | **Q604** | 0.0 | 9.0 | GND |
| **Q3** | 5.9 | GND | 6.5 | **Q323** | 2.7 | 5.0 | 0.0 | **Q605** | 9.0 | 0.0 | 9.0 |
| **Q4** | 0.8 | 0.0 | GND | **Q324** | 1.9 | 5.0 | 1.2 | **Q705** | 0.0 | 3.3 | 0.4 |
| **Q5** | 0.0 | 0.0 | GND | **Q325** | 1.9 | 5.0 | 1.2 | **Q706** | 0.0 | 0.0 | GND |
| **Q6** | 2.8 | GND | 3.5 | **Q451** | 2.2 | 0.0 | 2.2 | **Q707** | 0.0 | 0.0 | GND |
| **Q7** | 6.5 | 9.0 | 3.9 | **Q452** | 0.0 | 2.2 | GND | **Q710** | 0.0 | 3.4 | GND |
| **Q9** | 4.5 | 9.0 | 3.9 | **Q453** | 0.7 | 5.0 | 0.0 | **Q711** | 4.3 | 4.9 | 4.9 |
| **Q10** | 3.3 | GND | 4.0 | **Q454** | 0.7 | 5.0 | 0.0 | **Q712** | 12.1 | 12.0 | 12.1 |
| **Q12** | 0.0 | 0.0 | 9.0 | **Q455** | 0.7 | 5.0 | 0.0 | **Q714** | 3.3 | 0.0 | GND |
| **Q13** | 2.0 | GND | 2.7 | **Q456** | 1.1 | 5.0 | 0.5 | **Q717** | 0.0 | 0.0 | GND |
| **Q14** | 3.4 | 0.0 | 3.3 | **Q457** | 0.0 | 0.6 | GND | **Q718** | 0.7 | 0.0 | GND |
| **Q16** | 8.8 | 9.0 | 9.0 | **Q458** | 0.6 | 0.0 | GND | **Q719** | 0.0 | 0.0 | GND |
| **Q20** | 0.0 | 8.8 | 0.0 | **Q459** | 0.0 | 0.0 | GND | **Q721** | 0.0 | 0.0 | GND |
| **Q21** | 2.3 | GND | 3.0 | **Q460** | 2.8 | 9.0 | 2.8 | **Q722** | 0.0 | 0.0 | GND |
| **Q23** | 1.2 | GND | 1.9 | **Q461** | 2.4 | 0.0 | 3.2 | **Q723** | 0.0 | 4.9 | GND |
| **Q24** | 0.0 | GND | 3.0 | **Q462** | 2.7 | GND | 2.0 | **Q851** | 0.0 | 0.2 | GND |
| **Q25** | 2.0 | GND | 3.1 | **Q463** | 2.9 | GND | 3.6 | **Q852** | 0.0 | GND | 0.7 |
| **Q26** | 1.5 | GND | 2.3 | **Q464** | 0.0 | 3.6 | GND | **Q853** | 0.0 | GND | 0.0 |
| **Q27** | 4.9 | 4.2 | 5.0 | **Q465** | 0.8 | GND | 1.5 | **Q854** | 0.0 | 0.0 | GND |
| **Q28** | 0.6 | 0.1 | GND | **Q466** | 1.5 | 8.7 | 1.9 | **Q855** | 0.0 | GND | 0.7 |
| **Q29** | 0.0 | 4.9 | GND | **Q467** | 1.5 | 8.7 | 1.9 | **Q856** | 0.0 | 0.0 | GND |
| **Q30** | 5.0 | 0.0 | 0.0 | **Q468** | 1.5 | 8.7 | 1.6 | **Q857** | 0.5 | GND | 1.1 |
| **Q31** | 0.6 | 0.0 | GND | **Q469** | 1.4 | GND | 2.0 | **Q858** | 0.0 | 4.3 | GND |
| **Q32** | 0.1 | 5.0 | 0.0 | **Q470** | 4.4 | GND | 4.0 | | | | |
| **Q33** | 5.0 | 0.0 | 0.0 | **Q471** | 1.7 | GND | 2.3 | | | | |
| **Q34** | 0.0 | 0.0 | GND | **Q472** | 2.2 | 9.0 | 4.0 | | | | |
| **Q35** | 0.0 | 0.0 | GND | **Q473** | 1.9 | 0.0 | 2.7 | | | | |
| **Q36** | 0.0 | 0.0 | 0.0 | **Q474** | 1.9 | GND | 0.0 | | | | |
| **Q304** | 1.9 | GND | 0.0 | **Q476** | 1.6 | GND | 2.6 | | | | |
| **Q306** | 1.9 | 5.0 | 0.0 | **Q477** | 0.0 | 2.5 | GND | | | | |
| **Q308** | 1.2 | GND | 1.9 | **Q478** | 0.0 | 2.5 | GND | | | | |
| **Q311** | 2.1 | 5.0 | 1.5 | **Q479** | 0.0 | 2.5 | GND | | | | |
| **Q312** | 0.7 | GND | 1.3 | **Q601** | 0.0 | 5.2 | GND | | | | |

All voltages are in V.

## A BOARD LOCATOR LIST COMPONENT SIDE

| DIODE | | IC | | TRANSISTOR | |
|---|---|---|---|---|---|
| D3 | E-13 | IC1 | E-11 | Q16 | F-12 |
| D7 | E-12 | IC2 | C-11 | Q20 | F-12 |
| D14 | E-13 | IC305 | F-8 | Q24 | F-10 |
| D35 | G-13 | IC306 | E-6 | Q26 | F-10 |
| D309 | I-3 | IC451 | I-8 | Q27 | H-13 |
| D310 | I-3 | IC452 | G-6 | Q28 | G-13 |
| D311 | I-3 | IC602 | A-5 | Q29 | G-13 |
| D312 | I-3 | IC603 | B-5 | Q304 | Q304 |
| D313 | G-1 | IC604 | B-4 | Q306 | E-9 |
| D454 | H-4 | IC701 | C-5 | Q308 | D-9 |
| D456 | H-4 | IC702 | D-5 | Q311 | E-9 |
| D457 | H-5 | IC704 | E-4 | Q312 | D-9 |
| D459 | I-4 | IC705 | F-4 | Q313 | E-9 |
| D460 | G-6 | IC706 | F-4 | Q322 | E-8 |
| D470 | F-3 | IC707 | F-5 | Q323 | D-7 |
| D471 | F-3 | IC851 | I-8 | Q324 | E-7 |
| D501 | G-5 | IC852 | H-12 | Q325 | E-7 |
| D602 | C-3 | IC853 | H-12 | Q453 | I-6 |
| D603 | C-3 | IC854 | H-8 | Q454 | I-6 |
| D703 | C-4 | IC855 | G-9 | Q455 | I-5 |
| D706 | F-5 | IC856 | H-11 | Q456 | I-5 |
| D708 | F-3 | IC857 | H-10 | Q457 | I-7 |
| D709 | F-3 | IC858 | I-11 | Q458 | I-7 |
| D711 | F-4 | IC859 | I-13 | Q459 | H-7 |
| D721 | F-3 | IC860 | I-10 | Q461 | I-6 |
| D851 | F-4 | IC861 | I-10 | Q464 | G-6 |
| D852 | H-12 | IC862 | I-8 | Q466 | I-5 |
| D853 | I-12 | | | Q467 | H-5 |
| D854 | I-12 | | | Q468 | H-5 |
| D855 | I-12 | | | Q473 | I-5 |
| D856 | G-10 | | | Q474 | I-5 |
| D857 | G-10 | | | Q476 | H-5 |
| D858 | I-11 | | | Q601 | C-3 |
| | | | | Q705 | E-4 |
| | | | | Q711 | E-5 |
| | | | | Q712 | F-3 |
| | | | | Q714 | F-3 |
| | | | | Q718 | G-4 |
| | | | | Q723 | F-5 |
| | | | | Q851 | H-8 |
| | | | | Q852 | H-9 |
| | | | | Q853 | H-9 |
| | | | | Q854 | H-9 |
| | | | | Q855 | H-8 |
| | | | | Q856 | H-8 |
| | | | | Q857 | G-10 |
| | | | | Q858 | I-12 |

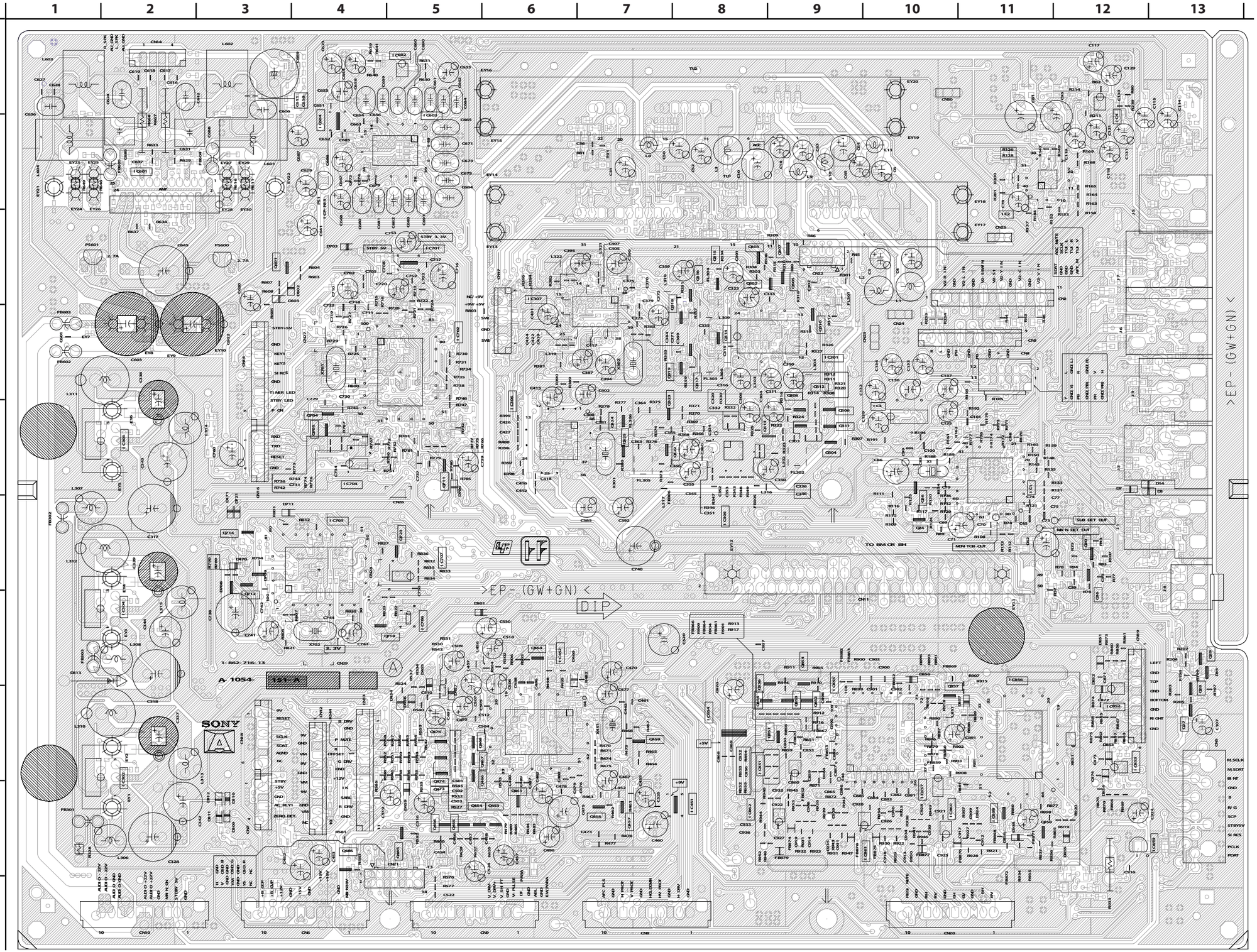
## A BOARD LOCATOR LIST CONDUCTOR SIDE

| DIODE | | IC | | TRANSISTOR | |
|---|---|---|---|---|---|
| D2 | E-1 | IC302 | H-13 | Q703 | C-10 |
| D3 | E-2 | IC303 | E-13 | Q706 | D-8 |
| D4 | E-2 | IC304 | F-13 | Q707 | D-8 |
| D5 | E-2 | IC601 | C-12 | Q709 | E-9 |
| D6 | F-2 | IC703 | D-9 | Q710 | F-10 |
| D8 | F-1 | **TRANSISTOR** | | Q717 | C-8 |
| D9 | F-2 | Q1 | C-6 | Q719 | D-8 |
| D10 | F-2 | Q2 | C-6 | Q721 | F-10 |
| D11 | E-2 | Q3 | B-7 | Q722 | F-10 |
| D12 | D-2 | Q4 | B-7 | Q730 | E-12 |
| D13 | D-2 | Q5 | F-2 | Q859 | I-2 |
| D15 | E-2 | Q6 | B-7 | Q860 | I-3 |
| D16 | D-3 | Q7 | G-3 | | |
| D17 | D-3 | Q9 | F-2 | | |
| D18 | D-3 | Q10 | G-2 | | |
| D19 | D-3 | Q12 | F-2 | | |
| D20 | A-1 | Q13 | F-2 | | |
| D21 | A-2 | Q14 | B-7 | | |
| D23 | C-2 | Q21 | F-3 | | |
| D24 | D-2 | Q23 | F-3 | | |
| D25 | D-2 | Q25 | F-4 | | |
| D26 | C-2 | Q30 | G-2 | | |
| D27 | C-2 | Q31 | G-1 | | |
| D28 | C-2 | Q32 | G-1 | | |
| D36 | C-1 | Q33 | G-1 | | |
| D37 | B-2 | Q34 | B-1 | | |
| D38 | D-1 | Q35 | B-1 | | |
| D39 | C-2 | Q36 | A-1 | | |
| D40 | C-4 | Q451 | I-11 | | |
| D41 | C-4 | Q452 | I-11 | | |
| D42 | F-1 | Q460 | G-7 | | |
| D43 | G-2 | Q462 | G-3 | | |
| D44 | C-1 | Q463 | G-7 | | |
| D45 | C-1 | Q465 | I-9 | | |
| D304 | H-12 | Q469 | H-9 | | |
| D305 | D-12 | Q470 | G-8 | | |
| D306 | F-12 | Q471 | H-9 | | |
| D307 | I-11 | Q472 | G-8 | | |
| D308 | I-11 | Q477 | H-9 | | |
| D451 | I-11 | Q478 | H-9 | | |
| D452 | I-11 | Q479 | H-9 | | |
| D453 | I-11 | Q603 | A-11 | | |
| D701 | F-11 | Q604 | A-11 | | |
| D707 | F-11 | Q605 | A-10 | | |
| D712 | F-10 | Q701 | D-10 | | |
| D720 | E-12 | Q702 | C-11 | | |

A

[TERMINAL BLOCK, TUNER
SUB COMB/ENCODER, POWER REGS,
CRT DRIVE, AUDIO AMP, AUDIO PROCESSOR
MICRO, DREGI-3, PJED3-CPU]

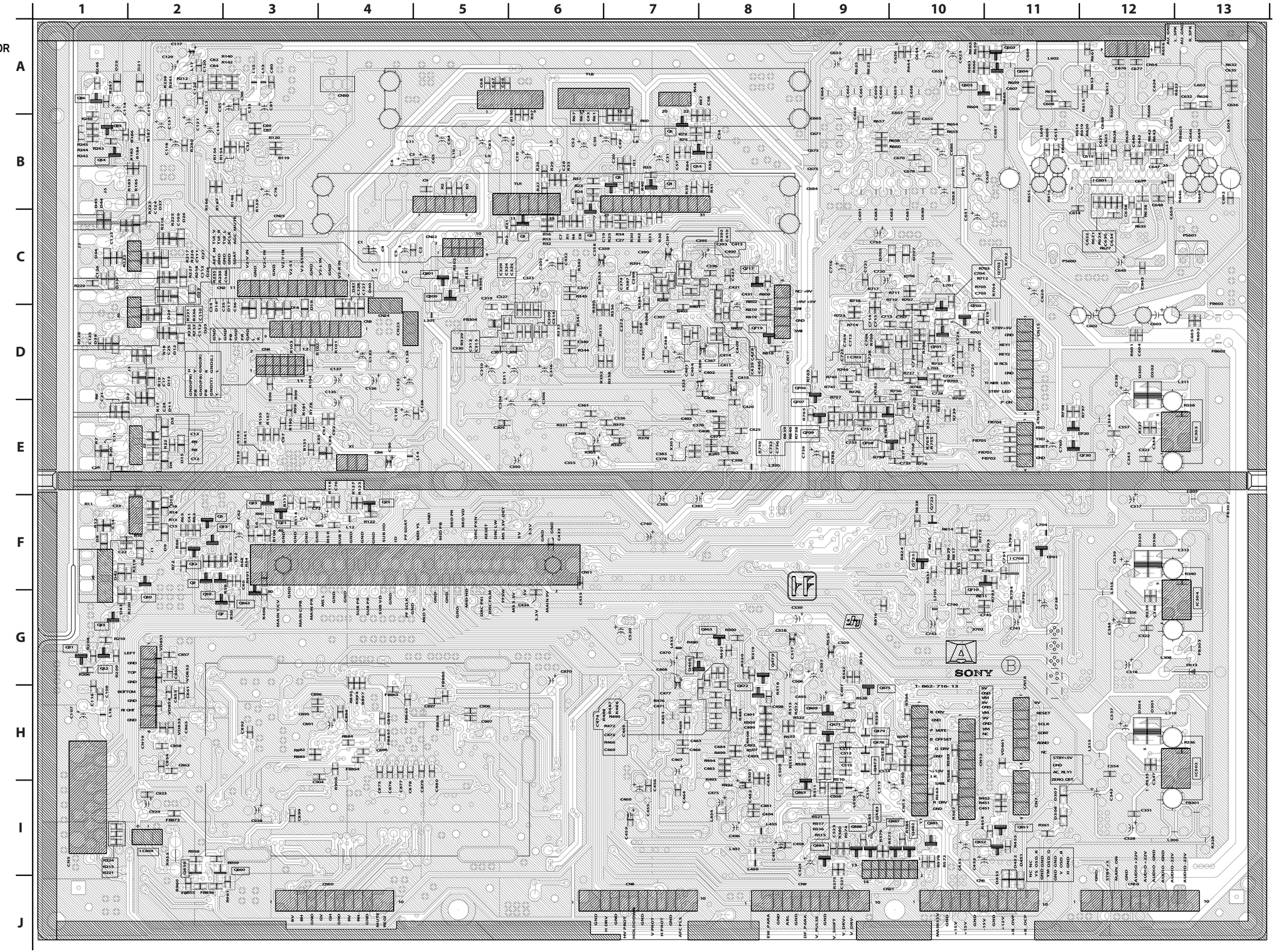
## COMPONENT SIDE



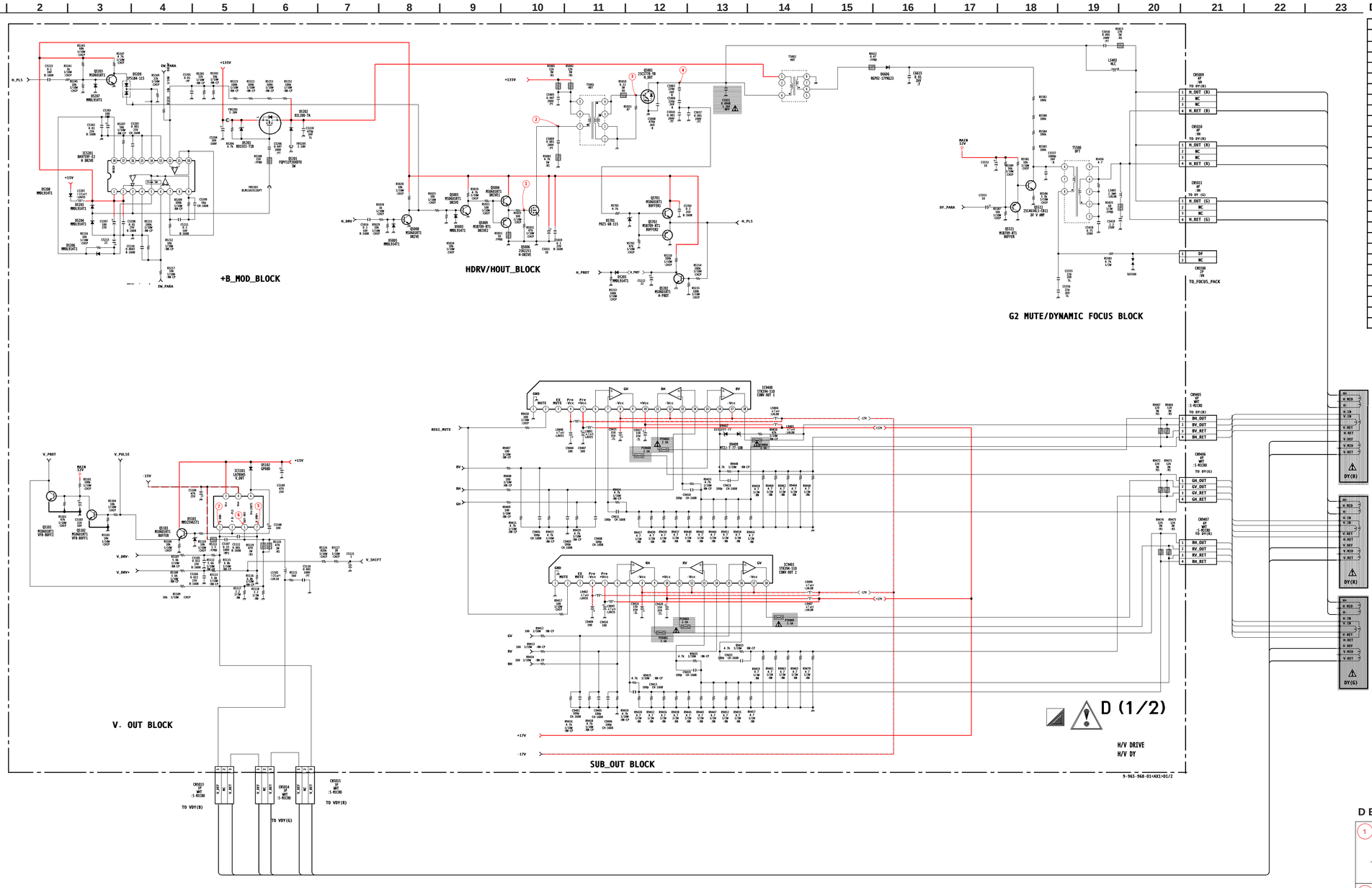
A

[TERMINAL BLOCK, TUNER
SUB COMB/ENCODER, POWER REGS,
CRT DRIVE, AUDIO AMP, AUDIO PROCESSOR
MICRO, DREGI-3, PJED3-CPU]

## CONDUCTOR SIDE



## D BOARD SCHEMATIC DIAGRAM (1 OF 2)




## D BOARD IC VOLTAGE LIST

| IC5101 | | IC6400 | | IC6503 | | IC8002 | | IC8005 | | IC9401 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PIN | VOLT | PIN | VOLT | PIN | VOLT | PIN | VOLT | PIN | VOLT | PIN | VOLT |
| 1 | 1.2 | 1 | 2.8 | 1 | 134.0 | 1 | 2.8 | 1 | 2.5 | 1 | GND |
| 2 | 15.0 | 2 | 1.8 | 2 | N/C | 2 | 1.8 | 2 | GND | 2 | 4.3 |
| 3 | -13.1 | 3 | 2.2 | 3 | N/C | 3 | 2.2 | 3 | 9.9 | 3 | N/C |
| 4 | -15.0 | 4 | 2.5 | 4 | N/C | 4 | 2.5 | **IC8104** | | 4 | -17.0 |
| 5 | 0.0 | 5 | GND | 5 | 2.5 | 5 | GND | **PIN** | **VOLT** | 5 | 17.0 |
| 6 | 14.6 | 6 | 0.0 | 6 | 1 | 6 | 0.0 | 1 | 2.5 | 6 | -0.1 |
| 7 | 1.2 | 7 | 4.6 | 7 | GND | 7 | 4.6 | 2 | GND | 7 | -0.1 |
| **IC5201** | | 8 | 17.9 | 8 | 12 | 8 | 17.9 | 3 | 2.5 | 8 | -17.0 |
| **PIN** | **VOLT** | 9 | 0.0 | **IC6601** | | 9 | 0.0 | **IC9400** | | 9 | 0.0 |
| 1 | 15.0 | 10 | 10.5 | **PIN** | **VOLT** | 10 | 10.5 | **PIN** | **VOLT** | 10 | 17.0 |
| 2 | 15.0 | 11 | GND | 1 | 15.0 | 11 | GND | 1 | GND | 11 | 0.5 |
| 3 | 5.8 | 12 | 4.8 | 2 | 6.35 | 12 | 4.8 | 2 | 4.3 | 12 | -17.0 |
| 4 | GND | 13 | N/C | 3 | GND | 13 | N/C | 3 | N/C | 13 | 0.3 |
| 5 | 7.9 | 14 | 151.8 | 4 | 6.35 | 14 | 151.8 | 4 | -17.0 | 14 | 0.3 |
| 6 | 3.8 | 15 | 142.2 | 5 | N/C | 15 | 142.2 | 5 | 17.0 | 15 | 0 |
| 7 | 3.8 | 16 | 146.3 | **IC6801** | | 16 | 146.3 | 6 | -0.3 | 16 | 0 |
| 8 | N/C | 17 | N/C | **PIN** | **VOLT** | 17 | N/C | 7 | -0.3 | 17 | -17.0 |
| 9 | 3.9 | 18 | 342.0 | 1 | 134.0 | 18 | N/C | 8 | -17.0 | 18 | 0.1 |
| 10 | 3.6 | **IC6501** | | 2 | 15.4 | **IC8004** | | 9 | -0.5 | All voltages are in V. | |
| 11 | 3.6 | **PIN** | **VOLT** | 3 | GND | **PIN** | **VOLT** | 10 | 17.0 | | |
| 12 | 3.6 | I | 15.0 | **IC8001** | | 1 | 6.9 | 11 | 0.1 | | |
| 13 | GND | O | 12.0 | **PIN** | **VOLT** | 2 | 6.9 | 12 | -17.0 | | |
| 14 | 7.1 | GND | GND | 1 | 0.1 | 3 | 6.9 | 13 | 0.0 | | |
| 15 | GND | | | 2 | 2.5 | 4 | GND | 14 | 0.0 | | |
| 16 | 3.2 | | | 3 | 2.1 | 5 | 6.9 | 15 | 0.0 | | |
| 17 | 2.6 | | | 4 | GND | 6 | 6.9 | 16 | 0.0 | | |
| 18 | 9.1 | | | 5 | 2.3 | 7 | 6.9 | 17 | -17.0 | | |
| | | | | 6 | 2.5 | 8 | 15 | 18 | 0.1 | | |
| | | | | 7 | 0 | | | | | | |
| | | | | 8 | 17.5 | | | | | | |

## D BOARD TRANSISTOR VOLTAGE LIST

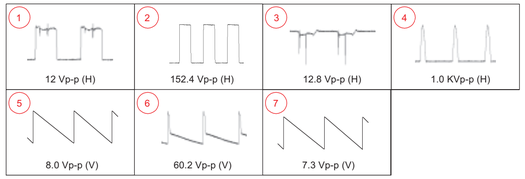
| | B | C | E | | B | C | E |
|---|---|---|---|---|---|---|---|
| **Q5001** | 0.0 | 84.3 | GND | **Q6403** | 157.0 | 156.0 | GND |
| **Q5004** | 3.8 | 12.0 | 3.8 | **Q6404** | 0.0 | 0.0 | GND |
| **Q5005** | 0.2 | 3.8 | GND | **Q6802** | 15.4 | 0.0 | 15.4 |
| **Q5008** | 0.0 | 2.1 | GND | **Q6803** | 133.0 | 3.7 | 132.0 |
| **Q5009** | 3.8 | 0.0 | 3.8 | **Q8003** | 0.1 | 2.6 | GND |
| **Q5101** | 0.1 | 0.8 | GND | **Q8004** | 0.1 | 2.6 | GND |
| **Q5102** | 0.0 | 0.1 | GND | **Q8007** | 0.6 | 0.1 | GND |
| **Q5103** | 0.0 | 15.0 | 0.2 | **Q8008** | 0.6 | 0.1 | GND |
| **Q5202** | 0.6 | 0.0 | GND | **Q8009** | 2.6 | 15.0 | 2.6 |
| **Q5203** | 0.9 | 9.0 | GND | **Q8010** | 0.6 | 0.1 | GND |
| **Q5406** | 2.7 | 76.7 | 2.7 | **Q8011** | 12.0 | 0.0 | 12.0 |
| **Q5521** | 14.6 | GND | 14.6 | **Q8021** | 12.0 | 0.0 | 12.0 |
| **Q5522** | 3.1 | 191.6 | 2.8 | **Q8028** | 0.0 | 11.7 | GND |
| **Q5701** | 7.4 | 12.0 | 7.2 | **Q8034** | 0.0 | 12.0 | GND |
| **Q5702** | 7.4 | GND | 7.2 | **Q8035** | 11.6 | 2.5 | 12.0 |
| **Q6402** | 5.5 | 0.0 | GND | | | | |

All voltages are in V.

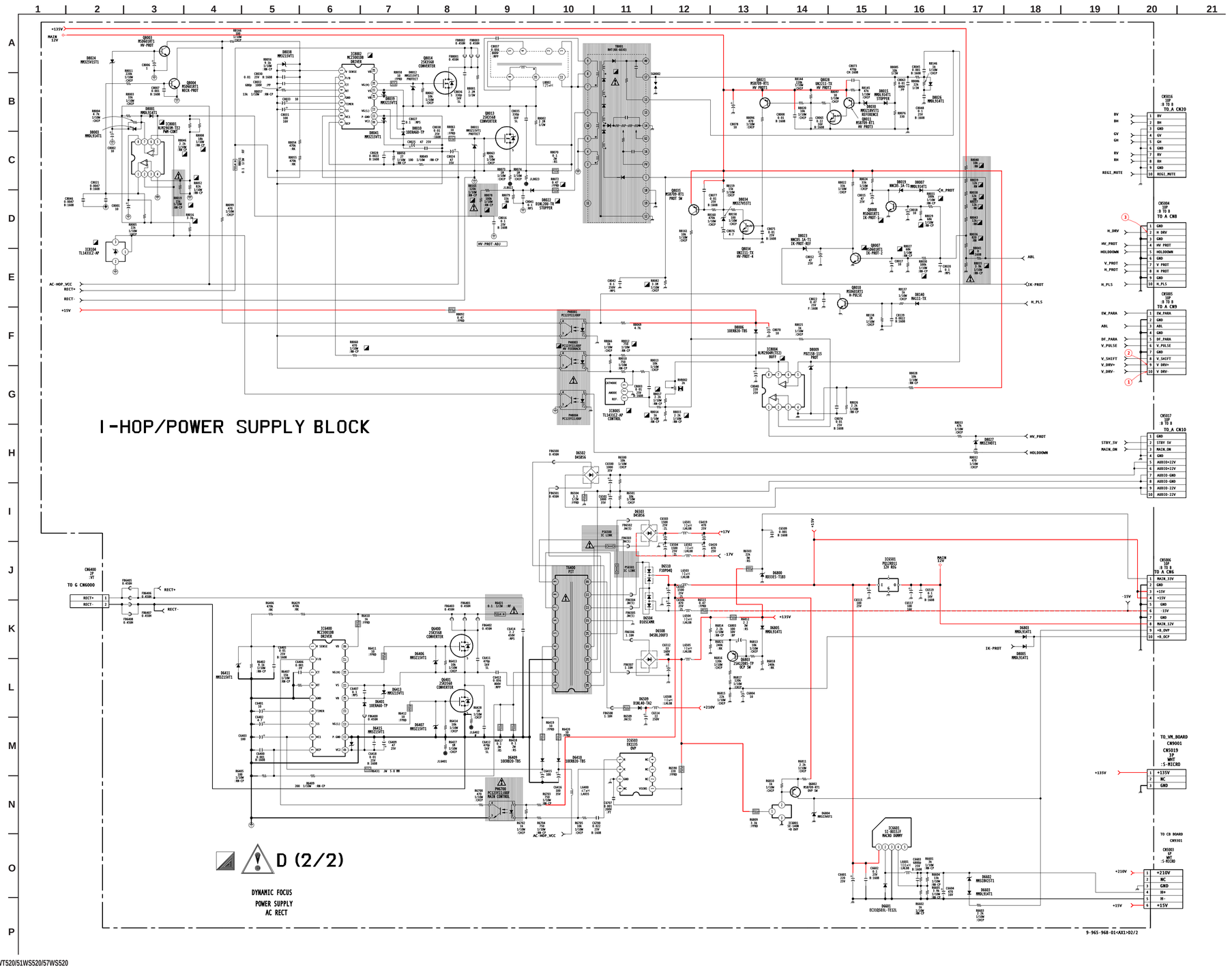
| | D | G | S |
|---|---|---|---|
| **Q5006** | 64.0 | 3.8 | GND |
| **Q5201** | 115.0 | 131.0 | 135.0 |
| **Q6400** | 306.0 | 145.0 | 140.0 |
| **Q6401** | 140.0 | 4.8 | GND |
| **Q8013** | 136.0 | 4.5 | GND |
| **Q8014** | 305.0 | 131.0 | 136.0 |

All voltages are in V.

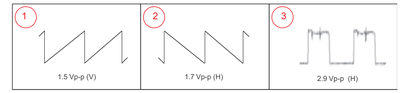
## D BOARD W AVEFORMS



## D BOARD SCHEMATIC DIAGRAM (2 OF 2)



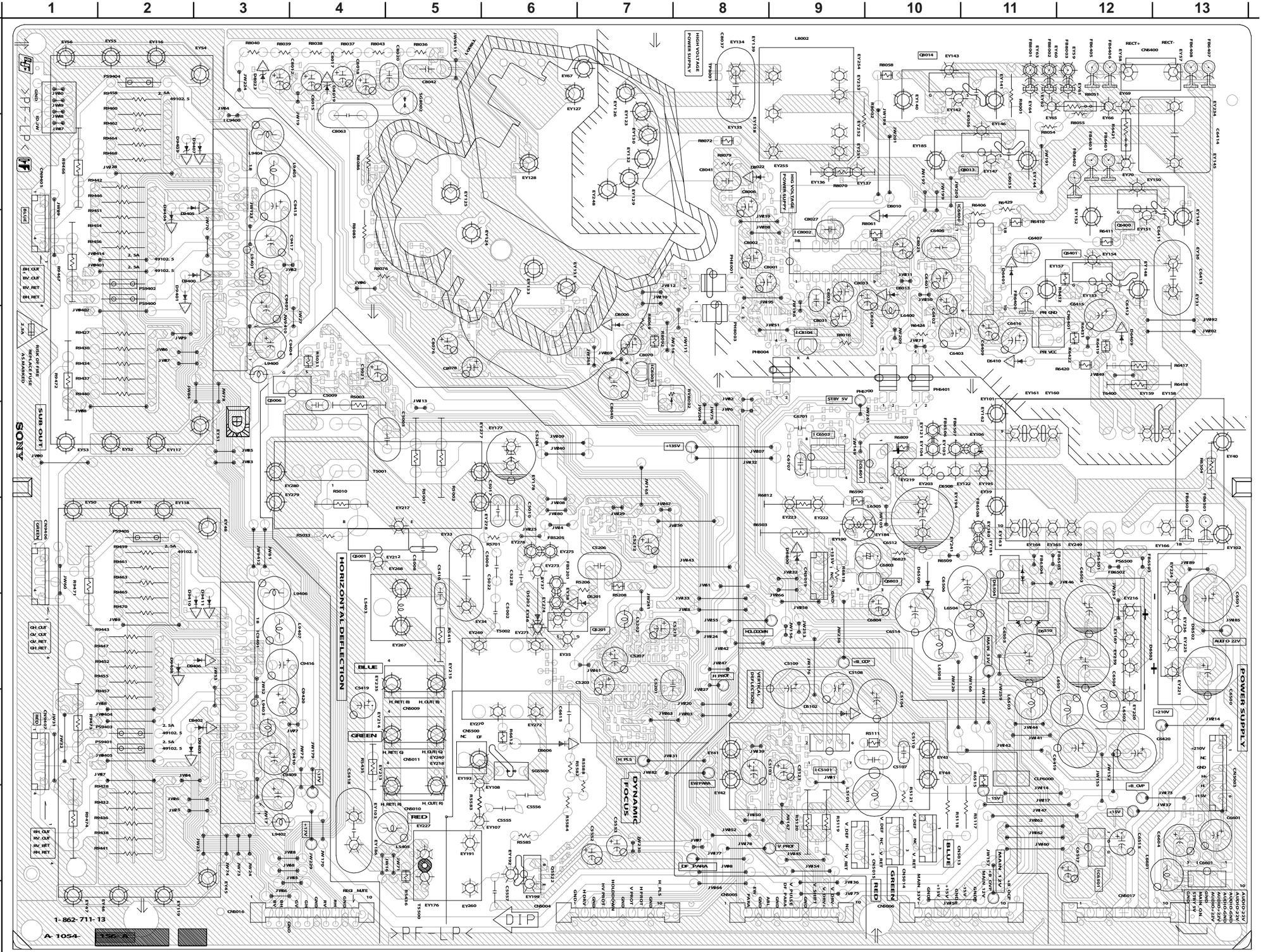

## D BOARD WAVEFORMS



D

[H/V DRIVE, H/V DY, DYNAMIC FOCUS, POWER SUPPLY, AC RECT]

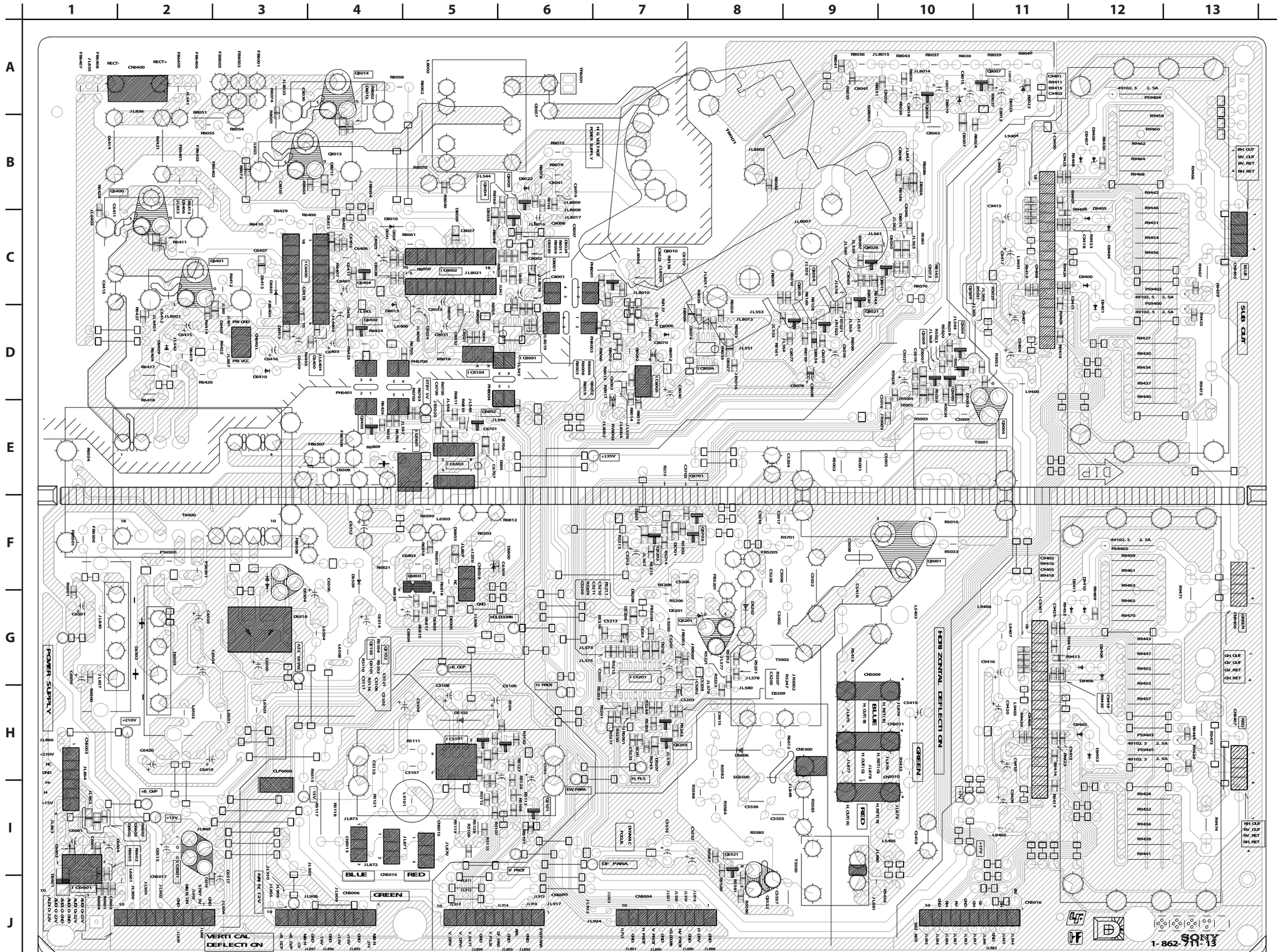
## COMPONENT SIDE



D

[H/V DRIVE, H/V DY, DYNAMIC FOCUS, POWER SUPPLY, AC RECT]

## CONDUCTOR SIDE



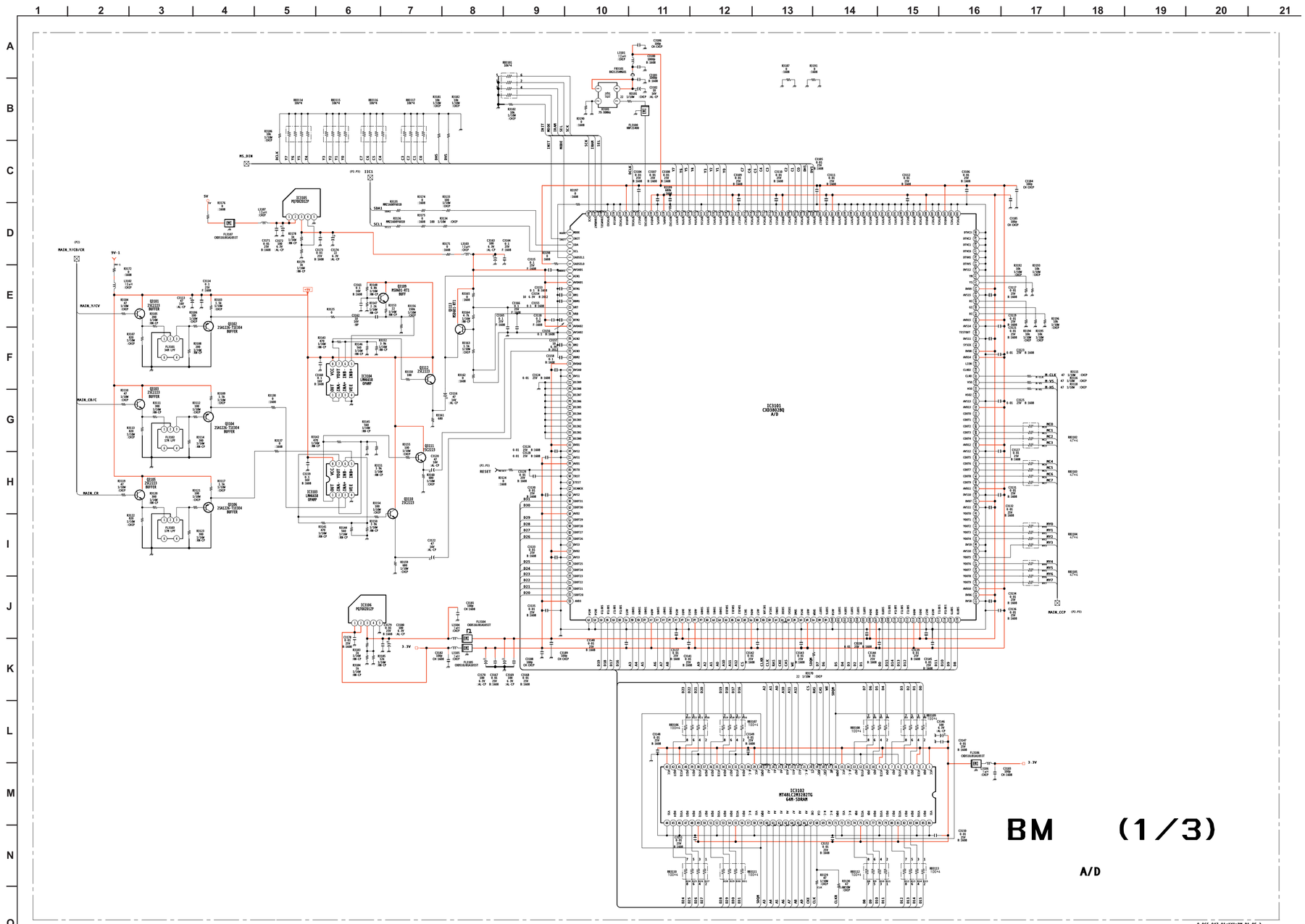
## D BOARD LOCATOR LIST CONDUCTOR SIDE

| DIODE | | DIODE | | TRANSISTOR | |
|---|---|---|---|---|---|
| D5003 | D-10 | D8010 | C-4 | Q5001 | F-10 |
| D5005 | E-10 | D8011 | B-4 | Q5004 | D-10 |
| D5101 | G-4 | D8012 | A-4 | Q5005 | D-10 |
| D5102 | H-5 | D8015 | C-10 | Q5006 | E-11 |
| D5201 | G-8 | D8019 | A-10 | Q5008 | D-10 |
| D5202 | G-8 | D8022 | B-6 | Q5009 | C-11 |
| D5203 | G-7 | D8023 | B-11 | Q5101 | I-6 |
| D5204 | G-7 | D8024 | C-6 | Q5102 | G-4 |
| D5205 | F-7 | D8026 | B-10 | Q5103 | G-4 |
| D5206 | G-7 | D8027 | D-8 | Q5201 | G-8 |
| D5207 | H-7 | D8030 | C-10 | Q5202 | F-7 |
| D5208 | G-7 | D8034 | D-9 | Q5203 | H-7 |
| D5209 | H-8 | D8038 | C-5 | Q5521 | I-8 |
| D5701 | F-7 | D8039 | C-5 | Q5522 | J-8 |
| D6401 | C-3 | D8041 | C-4 | Q5701 | E-7 |
| D6406 | B-2 | D8140 | D-7 | Q5702 | F-8 |
| D6407 | D-2 | D9407 | B-12 | Q6400 | B-1 |
| D6409 | D-2 | D9409 | B-12 | Q6401 | C-2 |
| D6410 | D-3 | IC | | Q6402 | D-4 |
| D6411 | C-4 | IC5101 | H-5 | Q6403 | E-4 |
| D6413 | C-3 | IC5201 | G-7 | Q6404 | C-4 |
| D6415 | D-3 | IC6400 | C-4 | Q6802 | E-6 |
| D6502 | G-2 | IC6501 | J-2 | Q6803 | F-5 |
| D6503 | G-2 | IC6503 | E-5 | Q8003 | B-6 |
| D6504 | D-3 | IC6601 | J-1 | Q8004 | B-4 |
| D6508 | E-4 | IC6801 | E-5 | Q8007 | A-11 |
| D6509 | F-4 | IC8001 | D-6 | Q8008 | A-10 |
| D6510 | G-3 | IC8002 | C-5 | Q8010 | C-7 |
| D6601 | J-1 | IC8004 | D-8 | Q8011 | C-10 |
| D6602 | I-2 | IC8005 | D-7 | Q8013 | B-4 |
| D6603 | I-2 | IC8104 | D-5 | Q8014 | A-4 |
| D6606 | H-8 | IC9400 | B-11 | Q8021 | D-10 |
| D6800 | F-6 | IC9401 | G-11 | Q8028 | C-9 |
| D6803 | G-5 | | | Q8034 | C-9 |
| D6804 | E-5 | | | Q8035 | C-9 |
| D6805 | F-5 | | | | |
| D8001 | C-6 | | | | |
| D8003 | C-6 | | | | |
| D8005 | G-5 | | | | |
| D8006 | D-7 | | | | |
| D8007 | B-10 | | | | |
| D8009 | D-8 | | | | |

NOTE: THE BM AND BH BOARDS ARE INTERCHANGEABLE. EITHER BOARD CAN BE USED AS A REPLACEMENT.

## BM BOARD SCHEMATIC DIAGRAM (1 OF 3)

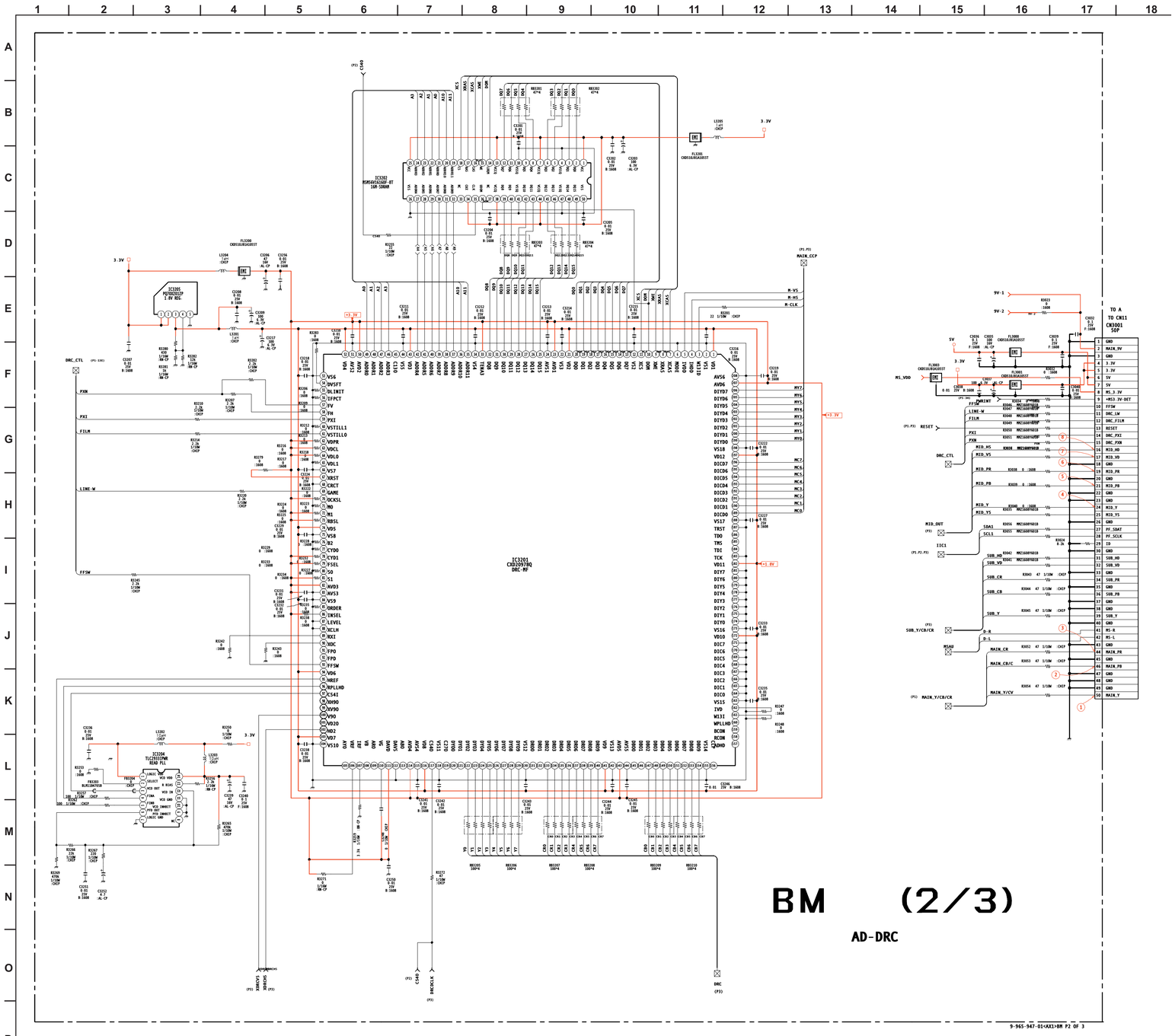
Due to the complexity of this board, performing component level field repairs is not recommended.
If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



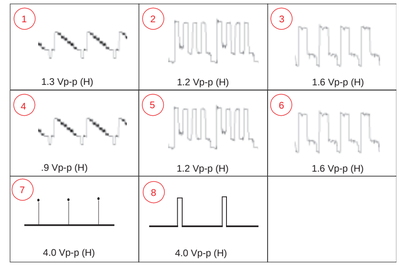
NOTE: THE BM AND BH BOARDS ARE INTERCHANGEABLE. EITHER BOARD CAN BE USED AS A REPLACEMENT.

## BM BOARD SCHEMATIC DIAGRAM (2 OF 3)

Due to the complexity of this board, performing component level field repairs is not recommended.
If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.




## BM BOARD WAVEFORMS



NOTE: THE BM AND BH BOARDS ARE INTERCHANGEABLE. EITHER BOARD CAN BE USED AS A REPLACEMENT.

## BM BOARD SCHEMATIC DIAGRAM (3 OF 3)

Due to the complexity of this board, performing component level field repairs is not recommended.
If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.

# BM (3/3)

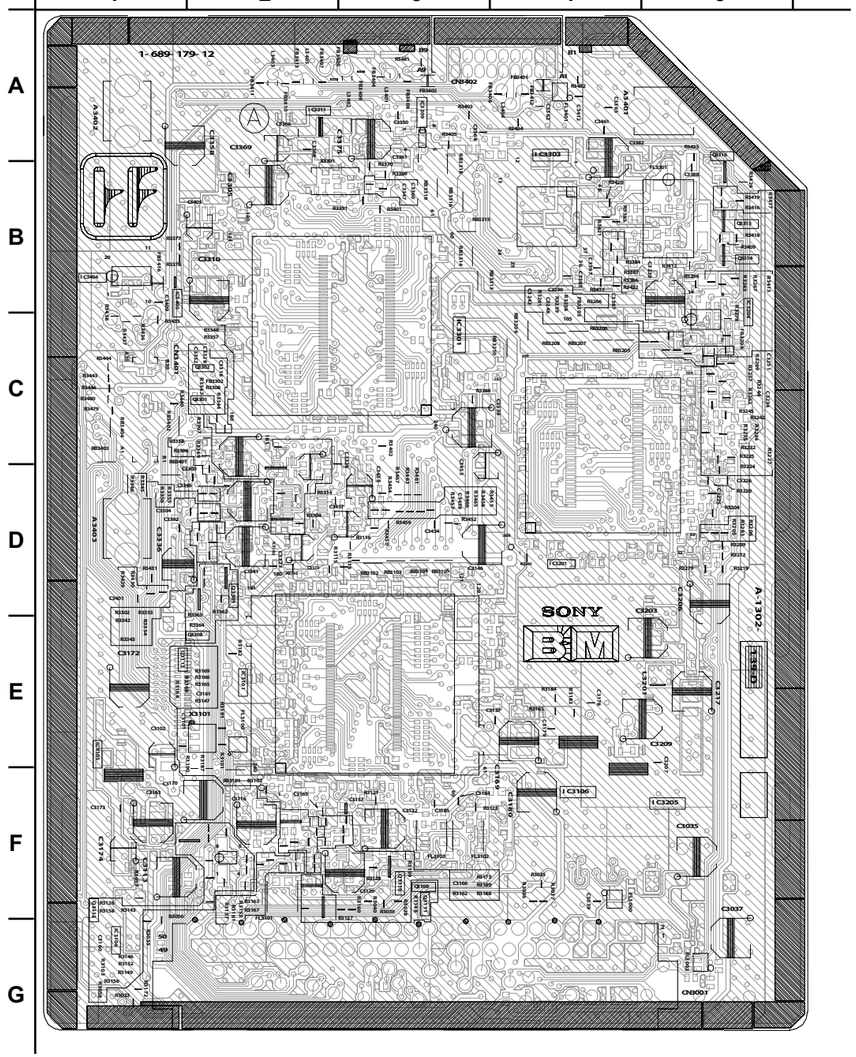
**MID-XA**

9-965-947-01<AX1>BM P3 OF 3

NOTE: THE BM AND BH BOARDS ARE INTERCHANGEABLE. EITHER BOARD CAN BE USED AS A REPLACEMENT.

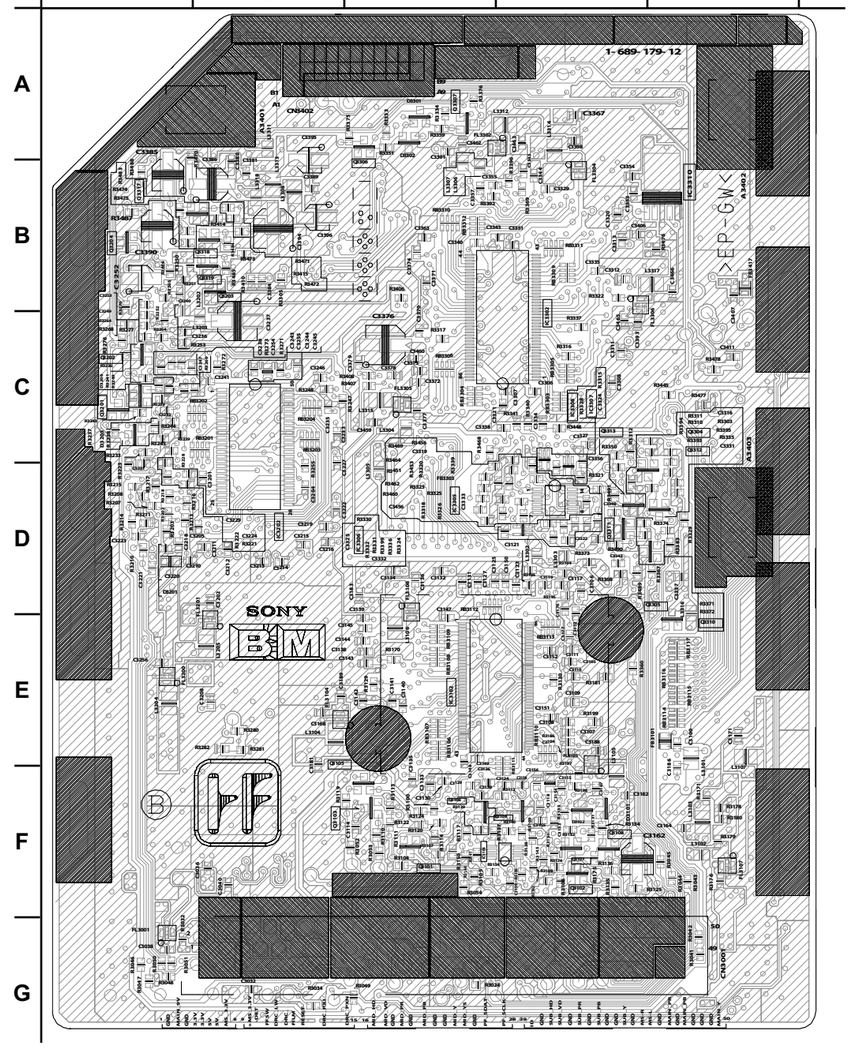
## BM [A/D, AD-DRC, MID-XA]

### COMPONENT SIDE




## BM [A/D, AD-DRC, MID-XA]

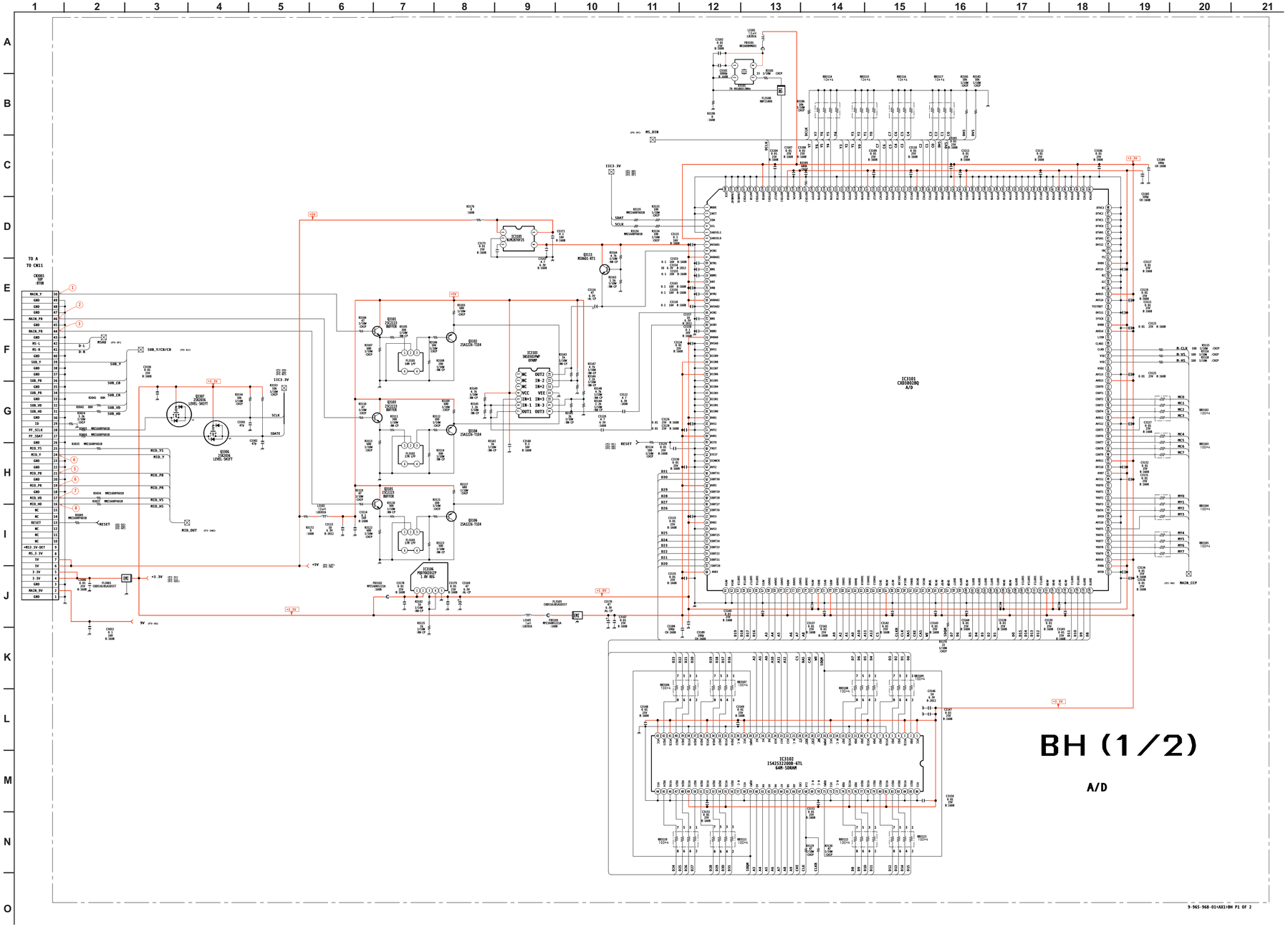
### CONDUCTOR SIDE



NOTE: THE BM AND BH BOARDS ARE INTERCHANGEABLE. EITHER BOARD CAN BE USED AS A REPLACEMENT.

## BH BOARD SCHEMATIC DIAGRAM (1 OF 2)

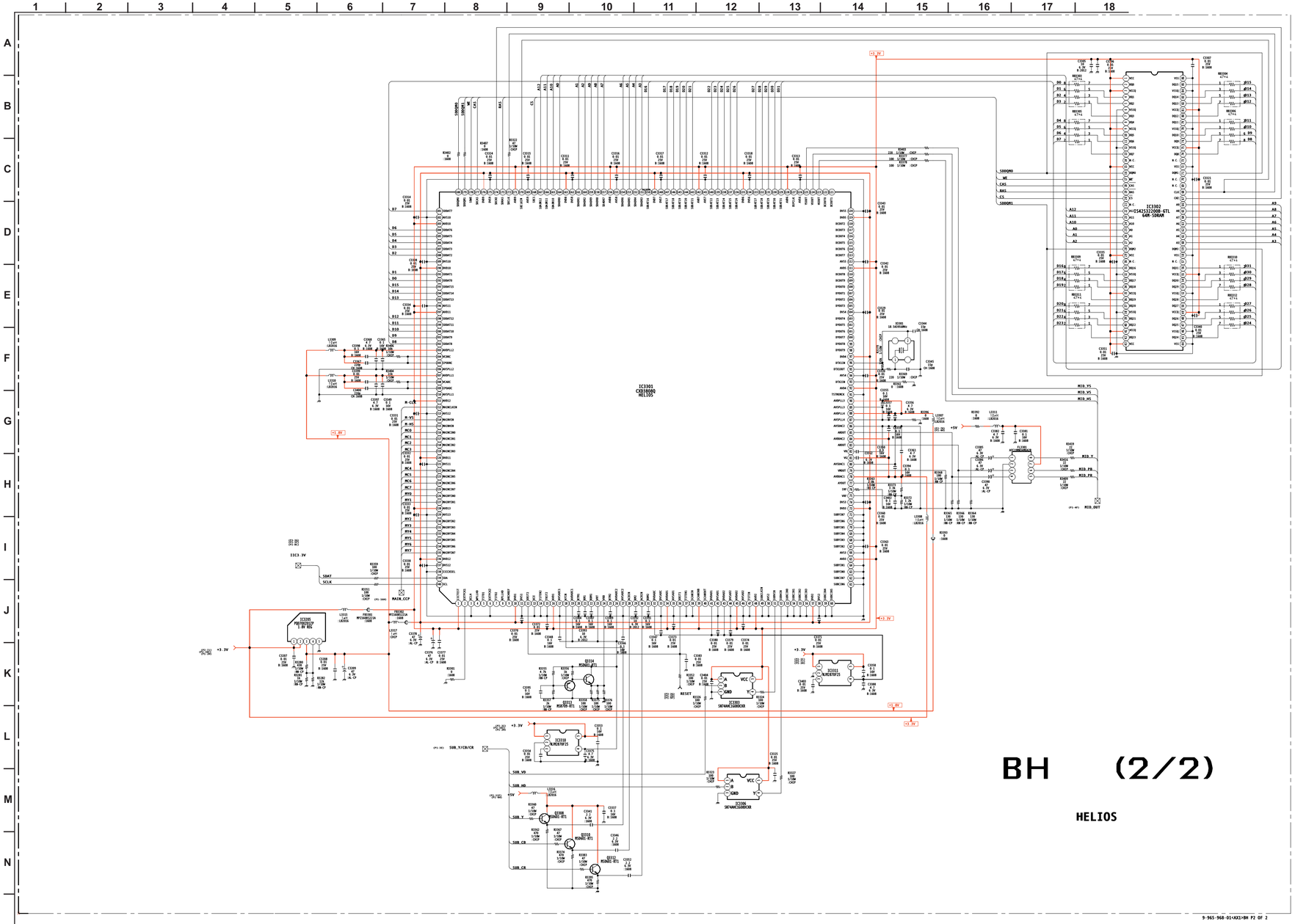
Due to the complexity of this board, performing component level field repairs is not recommended.
If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



NOTE: THE BM AND BH BOARDS ARE INTERCHANGEABLE. EITHER BOARD CAN BE USED AS A REPLACEMENT.

## BH BOARD SCHEMATIC DIAGRAM (2 OF 2)

Due to the complexity of this board, performing component level field repairs is not recommended.
If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.



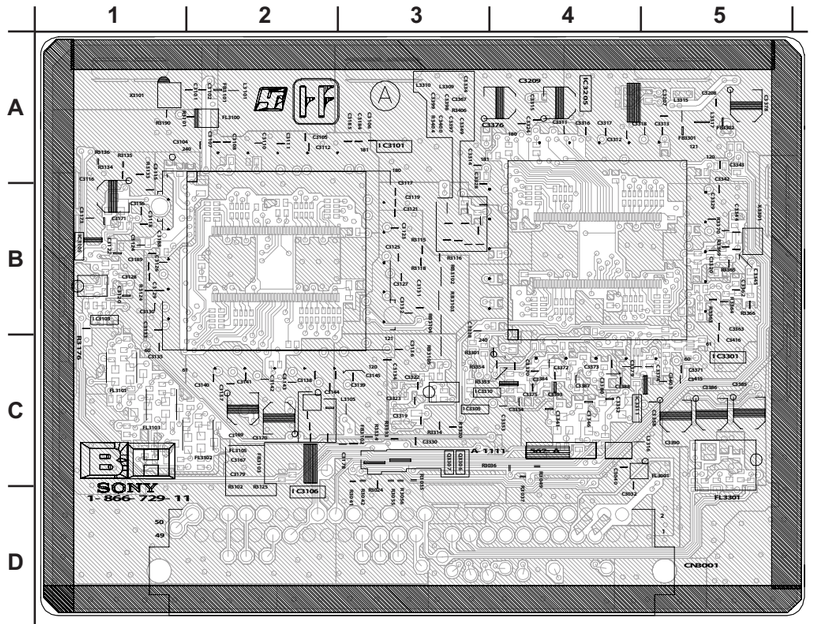

# BH (2/2)

HELIOS

NOTE: THE BM AND BH BOARDS ARE INTERCHANGEABLE. EITHER BOARD CAN BE USED AS A REPLACEMENT.

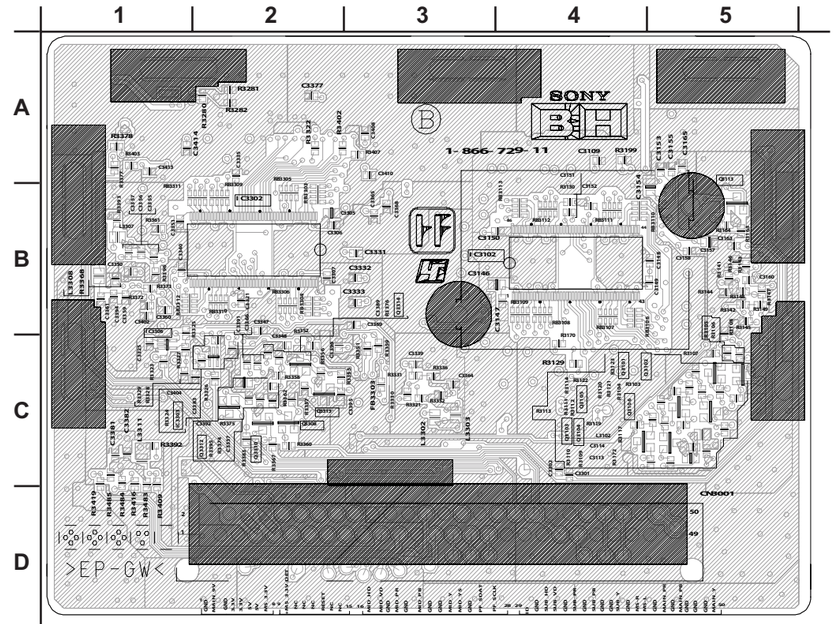
## BH [A/D, HELIOS]

### COMPONENT SIDE

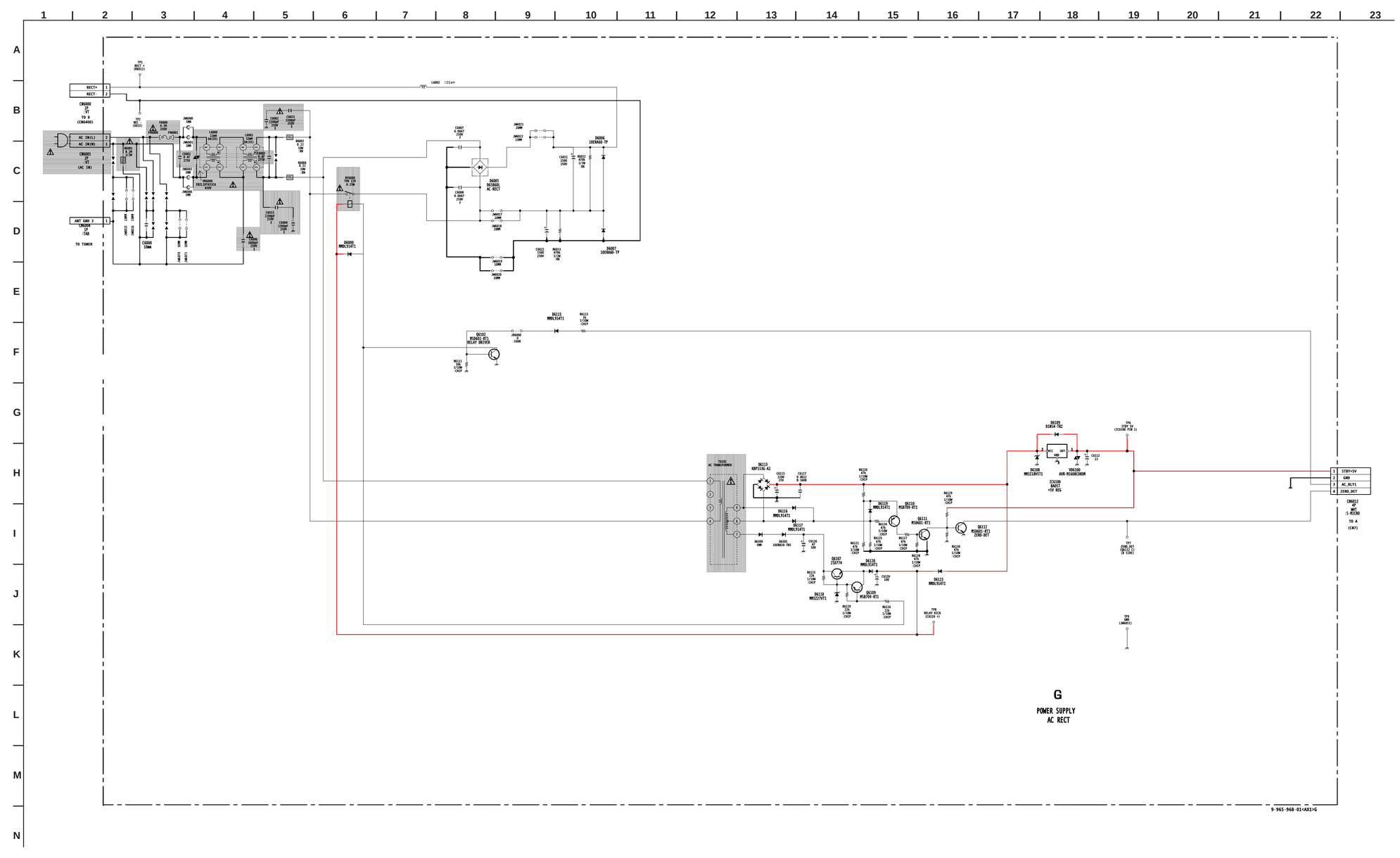



## BH [A/D, HELIOS]

### CONDUCTOR SIDE

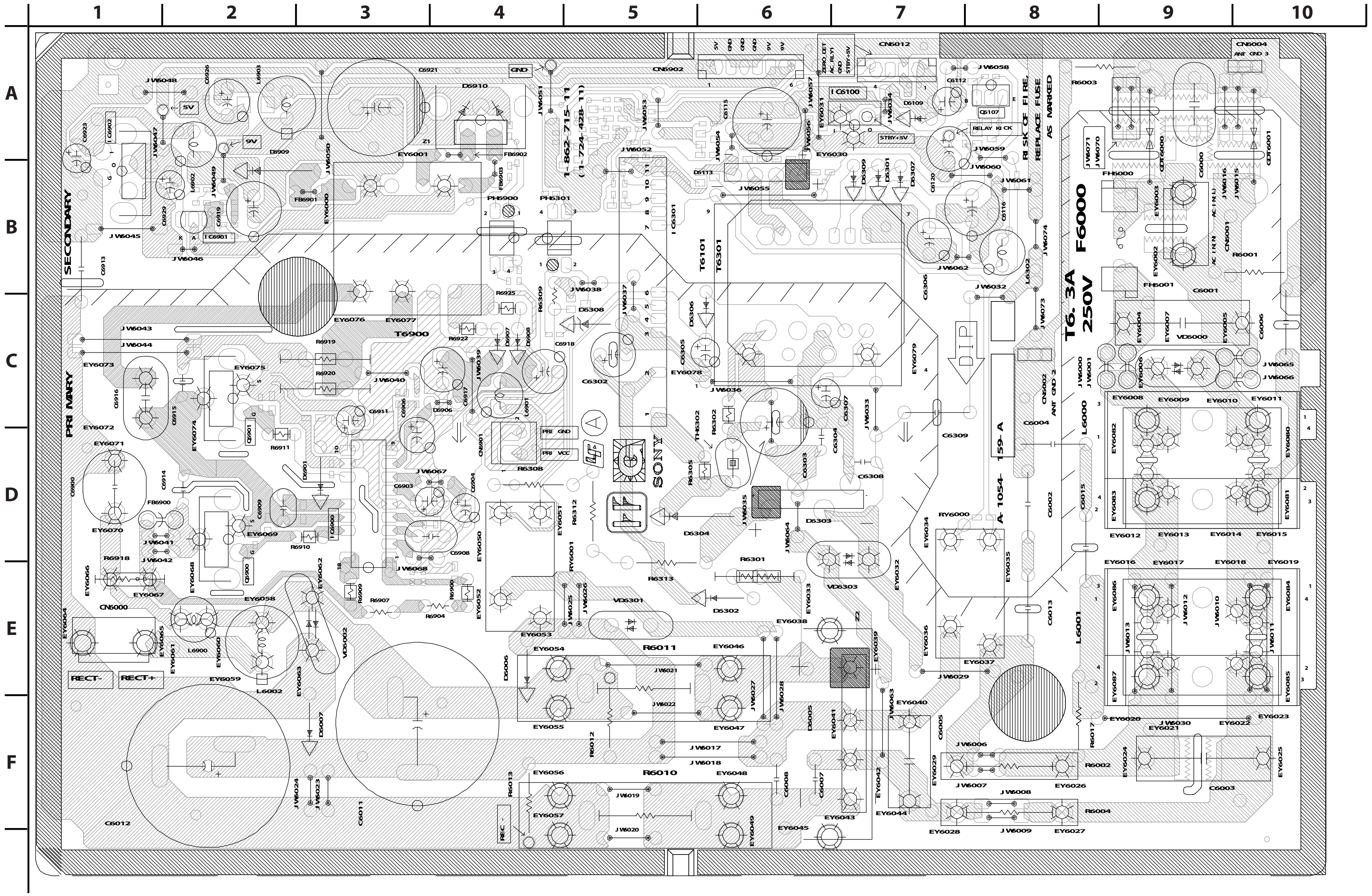


## G BOARD SCHEMATIC DIAGRAM


G
POWER SUPPLY
AC RECT
9-965-948-01<AX1>G
CN6000 CP :VT TO D (CN6A0V)
CN6001 CP :VT (AC IN)
CN6002 CP :TAB TO TUNER
CN6012 AP MBT 5-951N0 TO A (CN7)
AC_IN(L)
AC_IN(N)
RECT+
RECT-
ANT GND 3
STBY+5V
GND
AC_RLY1
ZERO_DET
D6109 DIBC4-TR2
IC6100 BA05T +5V REG
V06200 AVR-M10A0J00R0
D6108 RN1218FXTL
D6113 KBP153G-A2
D6112 RSD02-8T1 2SD2-8ET
D6110 RSA709-RT1
D6111 RSD02-8T1
D6120 RSA709-RT1
D6130 RSA709-RT1
D6137 2SD714
D6138 RN3227VT1
D6139 RSA709-RT1
D6123 RNDL5S4T1
D6116 RNDL5S4T1
D6117 RNDL5S4T1
D6115 RNDL5S4T1
D6102 RSD02-8T1 RELAY SKIVER
D6000 RNDL5S4T1
D6005 DCS06DL AC RECT
D6006 10ERA60-TP
D6007 10ERA60-TP
TP1 RECT + (SH512)
TP2 RECT - (SH513)
TP6 STBY 5V (IC6100 PIN 1)
TP7 ZERO_DET (CN512 PIN 3)
TP8 RELAY KICK (CN120 *2)
TP9 GND (CN6A51)
T01001 AC TRANSFORMER
VR6000 ERZL10T431CA 430V
L6000 L6001 L6002 L6003 L6004
L6002 100uH
R6000 R6001 R6002 R6003 R6004 R6005 R6006 R6007 R6008 R6009 R6010 R6011 R6012 R6013 R6014 R6015 R6016 R6017 R6018 R6019 R6020 R6021 R6022 R6023 R6024 R6025 R6026 R6027 R6028 R6029 R6030 R6031 R6032 R6033 R6034 R6035 R6036 R6037 R6038 R6039

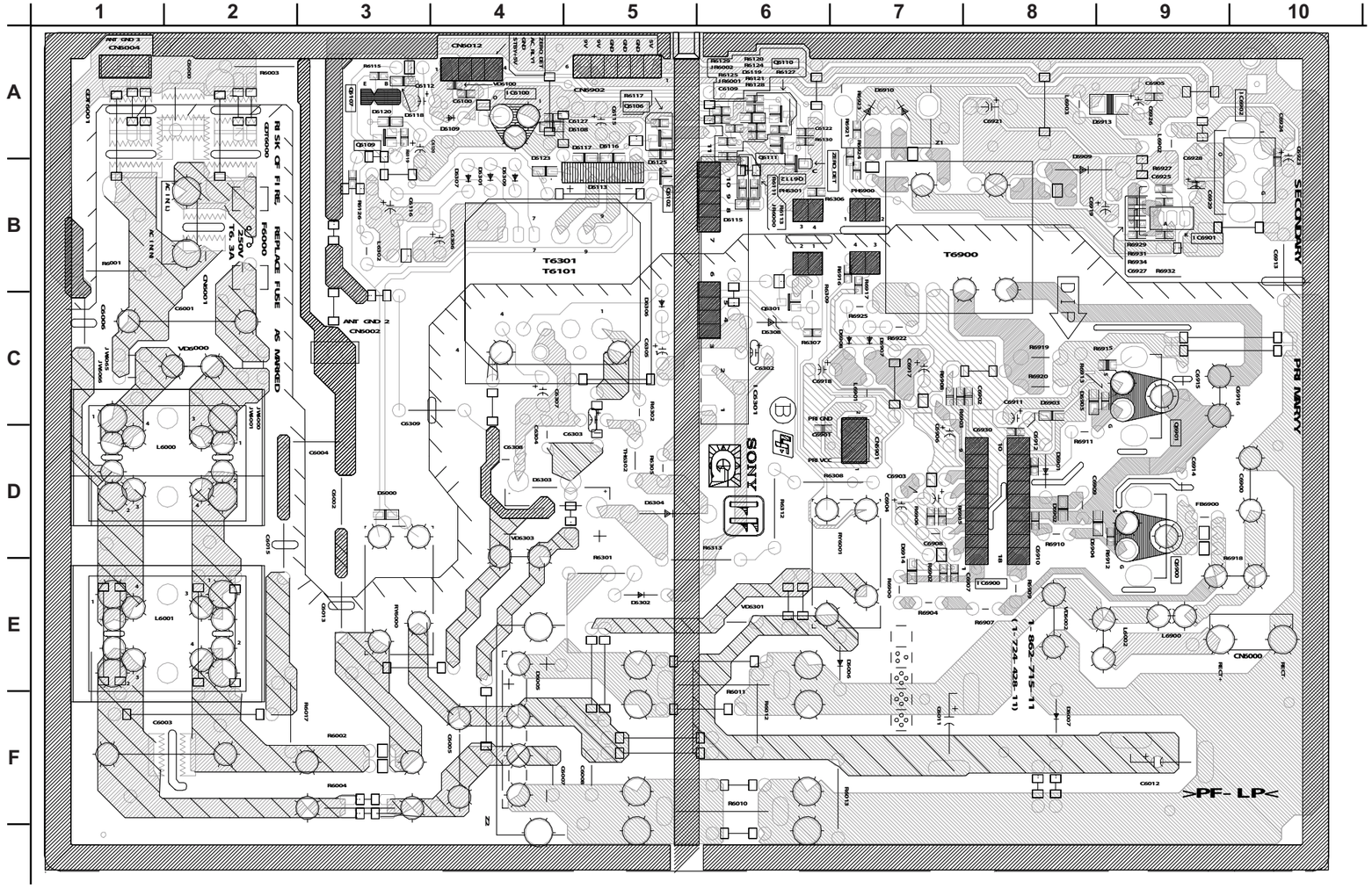
G [POWER SUPPLY, AC RECT]

## COMPONENT SIDE

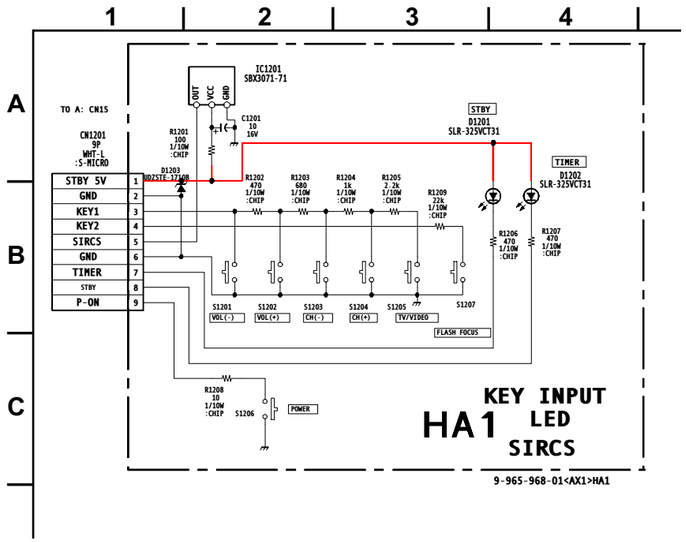

1 2 3 4 5 6 7 8 9 10
A B C D E F
SECONDARY
PRIMARY
RECT-
RECT+
REC -
5V
9V
GND
STBY+5V
RELAY KICK
ZERO DET
AC RLY1
GND
STBY+5V
5V GND GND GND 9V 9V
ANT GND 3
ANT GND 2
PRI GND
PRI VCC
1-862-715-11
(1-724-428-11)
T6101
T6301
T6900
D6910
F6000
T6.3A
250V
RISK OF FIRE,
REPLACE FUSE
AS MARKED
A-1054-159-A
DIP
SONY
CN6000
CN6001
CN6002
CN6004
CN6012
CN6901
CN6902
IC6100
IC6301
IC6900
IC6901
IC6902
Q6107
Q6900
Q6901
PH6300
PH6301
PH6900
RY6000
RY6001
VD6000
VD6301
VD6303
VD6002
FH6000
FH6001
GDT6000
GDT6001
L6000
L6001
L6002
L6302
L6900
L6901
L6902
L6903
FB6900
FB6901
FB6902
FB6903
TH6302
R6001
R6002
R6003
R6004
R6010
R6011
R6012
R6013
R6017
R6301
R6302
R6305
R6308
R6309
R6312
R6313
R6900
R6904
R6907
R6909
R6910
R6911
R6918
R6919
R6920
R6922
R6925
C6000
C6001
C6002
C6003
C6004
C6005
C6006
C6007
C6008
C6011
C6012
C6013
C6015
C6112
C6115
C6116
C6120
C6302
C6303
C6304
C6305
C6306
C6307
C6308
C6309
C6900
C6903
C6904
C6906
C6908
C6909
C6911
C6913
C6914
C6915
C6916
C6917
C6918
C6919
C6921
C6923
C6926
C6929
D6005
D6006
D6007
D6109
D6113
D6301
D6302
D6303
D6304
D6306
D6307
D6308
D6309
D6901
D6906
D6907
D6908
D6909
Z1
Z2

G [POWER SUPPLY, AC RECT]

## CONDUCTOR SIDE

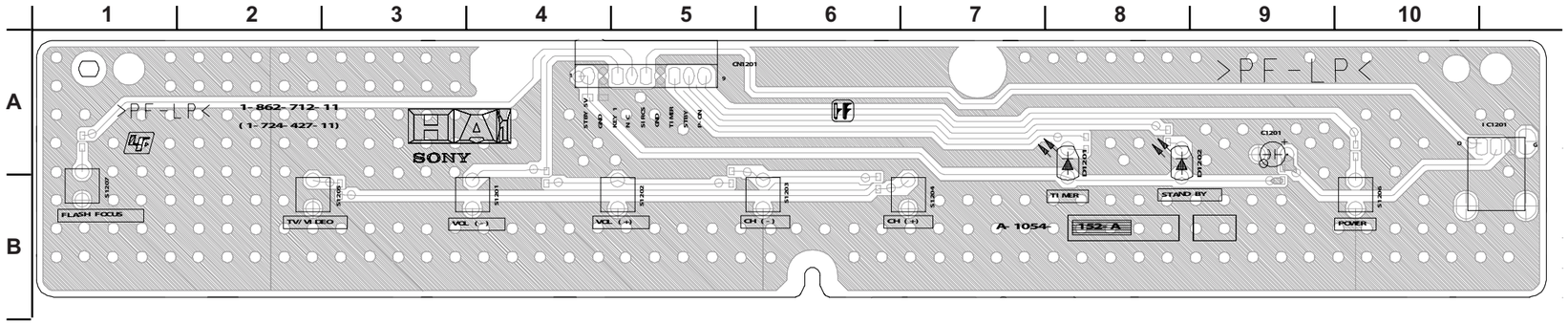


## HA1 BOARD SCHEMATIC DIAGRAM



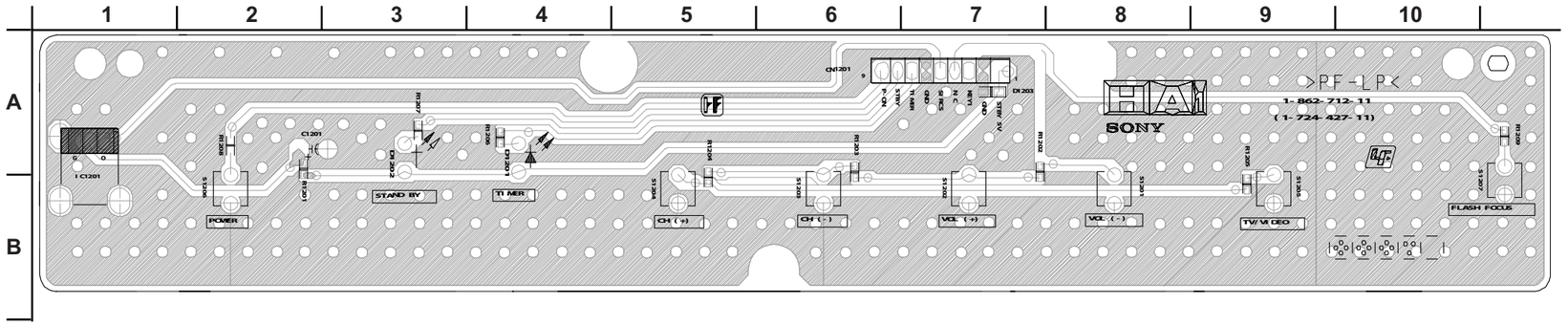

## HA1 [KEY INPUT, LED, SIRCS]

### COMPONENT SIDE



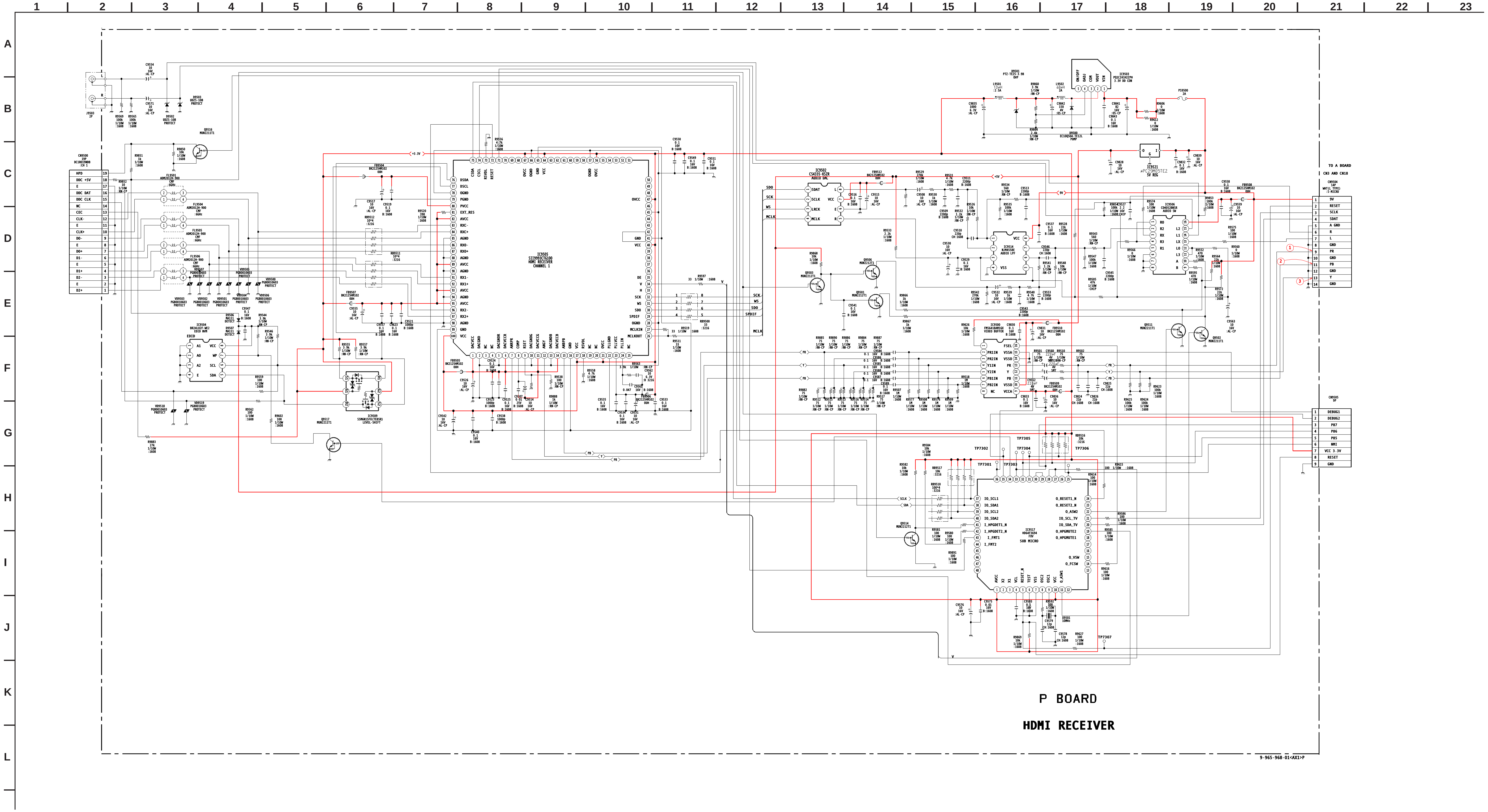

## HA1 [KEY INPUT, LED, SIRCS]

### CONDUCTOR SIDE

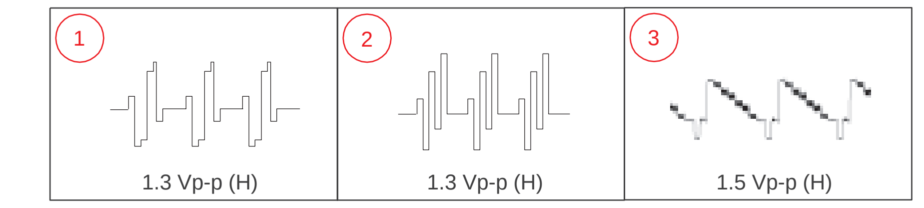


## P BOARD SCHEMATIC DIAGRAM

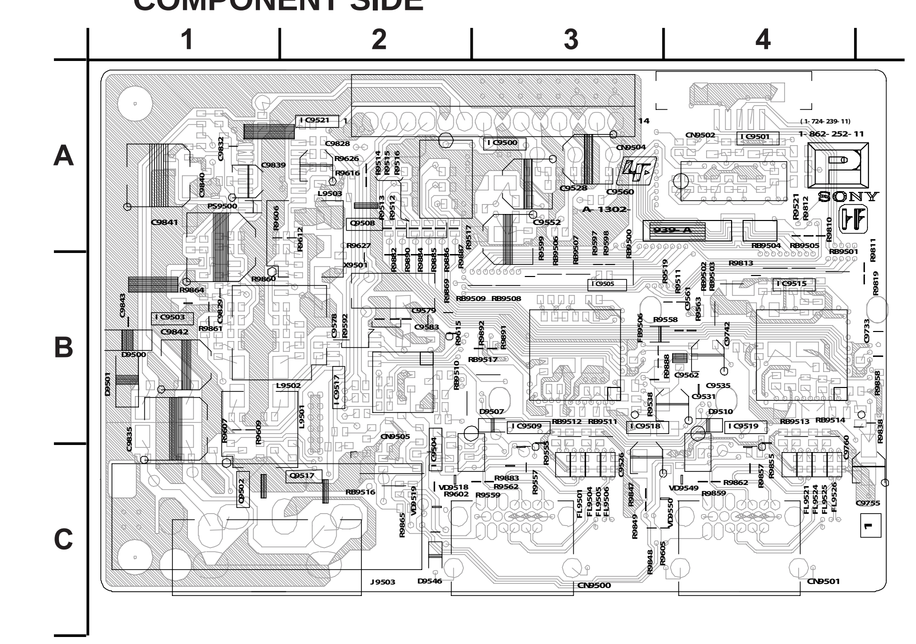
Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.
Data is provided for reference only.


P BOARD
HDMI RECEIVER
IC9505 SII9993CTG100 HDMI RECEIVER CHANNEL 1
IC9502 CS4335-KSZR AUDIO DAC
IC9503 PQ1CZ41H2ZPH 3.3V DD CON
IC9521 PC29M05TE2 5V REG
IC9514 NJM4558E AUDIO LPF
IC9506 CD4052BNSR AUDIO SW
IC9500 FMS6418AM16X VIDEO BUFFER
IC9517 HD64F3694 FXV SUB MICRO
IC9504 BR24L02F-WE2 EDID NVM
IC9509 SSM6N15FU(TE85R) LEVEL-SHIFT
CN9500 19P DC1R019NDB :CH 1
J9503 2P
TO A BOARD
CN3 AND CN18
CN9504 14P WHT(L TYPE) :S-MICRO
CN9505 9P
9-965-968-01<AX1>P

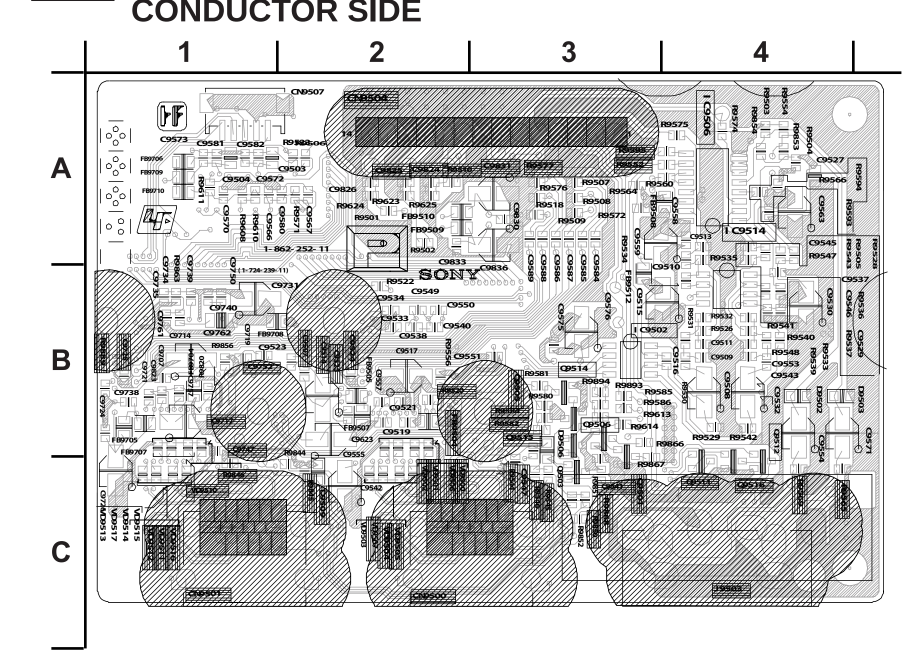
## P BOARD WAVEFORMS



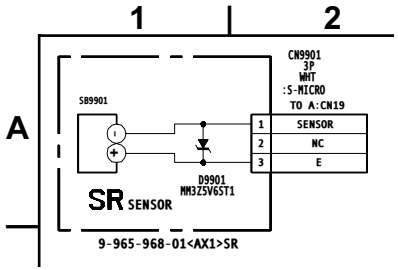

P [HDMI RECEIVER]
### COMPONENT SIDE



P [HDMI RECEIVER]
### CONDUCTOR SIDE



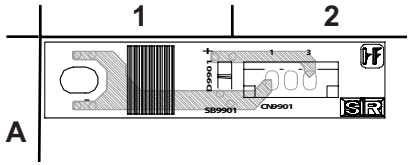
## SR BOARD SCHEMATIC DIAGRAM




Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method. Data is provided for reference only.

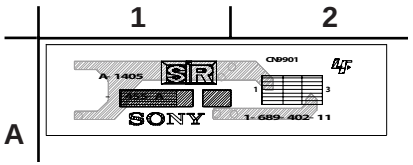
SR [SENSOR]

### COMPONENT SIDE

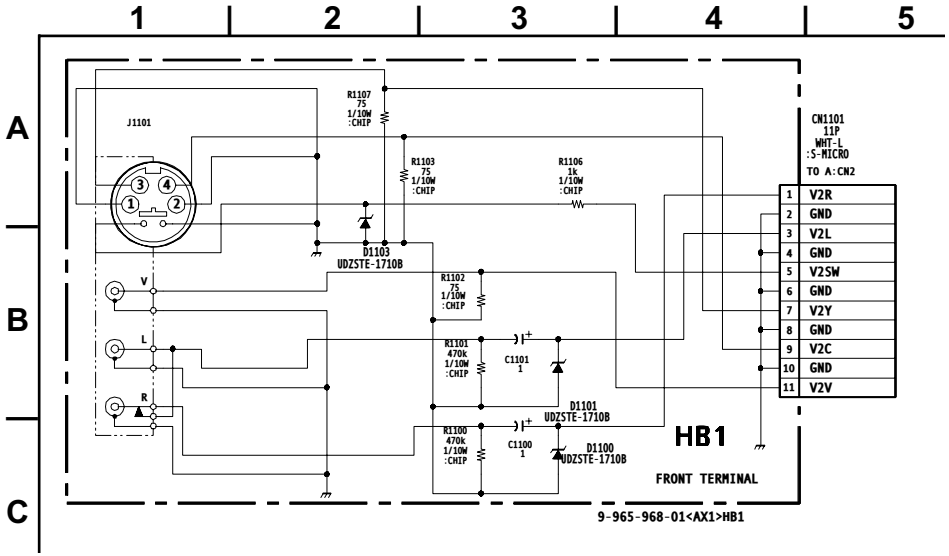



SR [SENSOR]

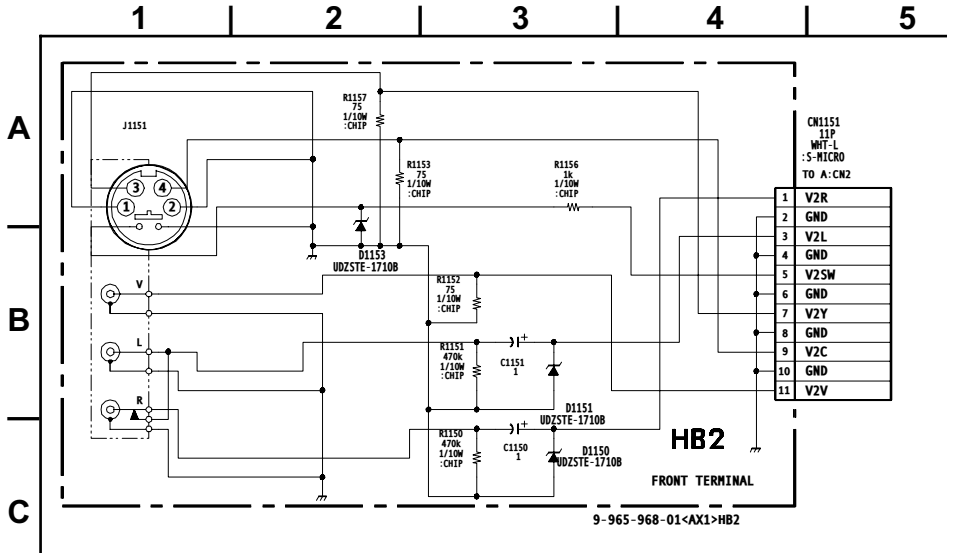
### CONDUCTOR SIDE




## HB1 BOARD SCHEMATIC DIAGRAM (KP-51WS520/57WS520 ONLY)



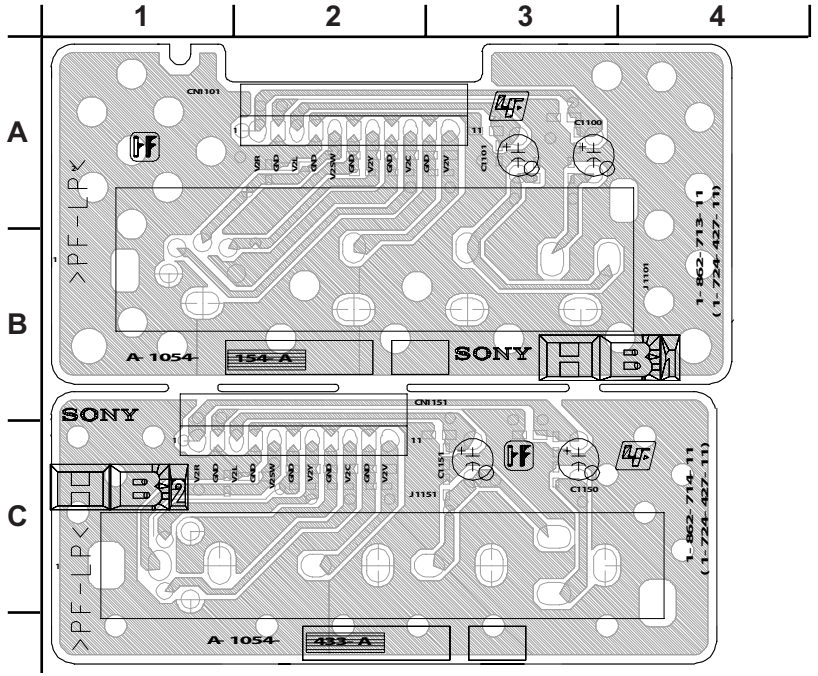

## HB2 BOARD SCHEMATIC DIAGRAM (KP-46WT520 ONLY)



## HB1 [FRONT TERMINAL] (KP-51WS520/57WS520 ONLY)

## HB2 [FRONT TERMINAL] (KP-46WT520 ONLY)

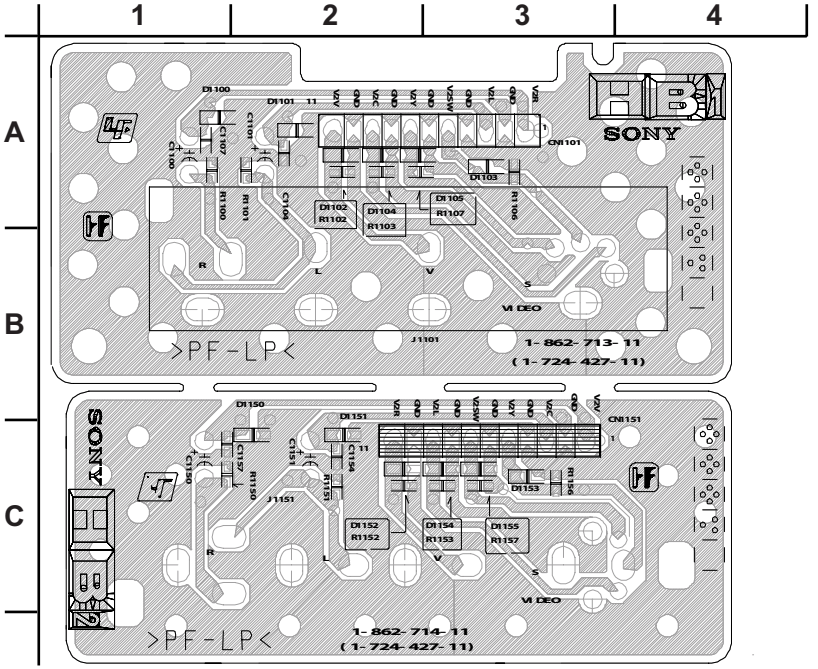
### COMPONENT SIDE




## HB1 [FRONT TERMINAL] (KP-51WS520/57WS520 ONLY)

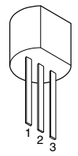
## HB2 [FRONT TERMINAL] (KP-46WT520 ONLY)

### CONDUCTOR SIDE

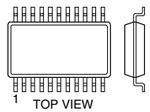


## 5-5. SEMICONDUCTORS

**AN77L12-TA**
**NJM78L12A-T3**
**NJM79L05A**
**NJM79L05A-T3**

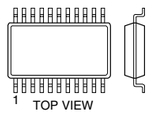



**BA9759F-E2**



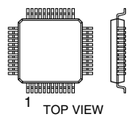

18pin SOP

**CD0031AM**



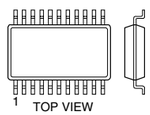

48pin SOP

**CM0017AF**



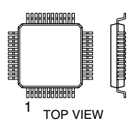

100pin QFP

**CXA1726AM**
**CXA1726AM-T6**



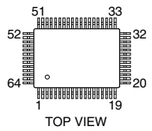

30pin SOP

**CXA2103Q**
**CXA2151Q**

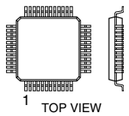



48pin QFP

**CXA2069Q**
**CXA2150AQ**

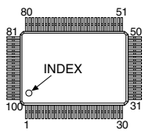



**CXD2073Q-T4**

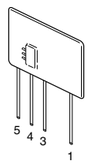



32pin QFP

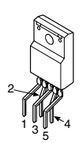
**CXP961064-001Q**
**M306V2ME-154FP**
**µPD64082GF-3BA**



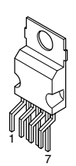

**DM-58**



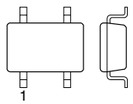

**LA6500-FA**
**LA6500P-FA**




**LA78045**
**TDA2052**

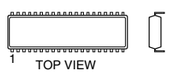



**MAX4450EUK-TG069**



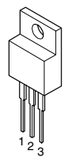

5pin CHIP

**MCZ3001D**

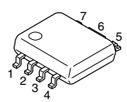



18pin DIP

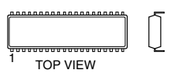
**MC7805CT**
**MC7812CT**
**NJM7805FA**
**NJM7812FA**
**PQ09RF21**
**TA7805S**
**TA7812S**




**MM1476AF(TP)**

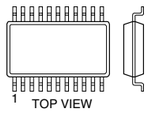



**MSM514265C-60JS**
**µPD424210LE-60-E2**



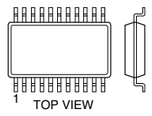

40pin DIP

**M24C04-WMN6T(A)**
**M24C32-WMN6T(A)**
**NJM2068V-TE2**
**NJM2521M(TE2)**
**NJM2903M**
**NJM2903M-TE2**
**NJM2904M**
**NJM2904M(TE2)**
**NJM4558M-T2**
**NJM4558M-TE2**
**NJM4558V-TE2**
**µPC4558G2**



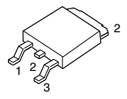

8pin SOP

**M52055FP**
**TC74HCT157AF**
**TC74HCT157AF(EL)**
**TC74LVX157FT(EL)**

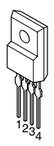



16pin SOP

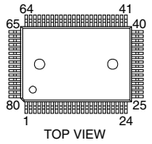
**NJM2391DL1-33-TEI**



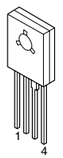

**NJM2395AF05**
**NJM2395F09**



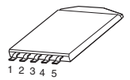

**NJW1106FC2**



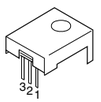

**PQ30RV11**



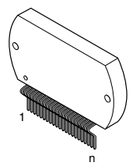

**PST9143NL**




**SBX1971-51P**

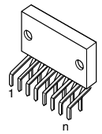



**STK392-560**



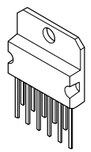

n=18pin

**TDA6120Q/N2/S1**

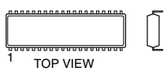



n=13pin

**TDA7265**

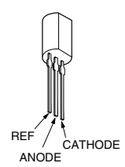


**TDA7312**

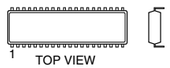



30pin DIP

**µPC1093J-1-T**

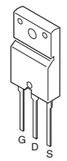



**µPC393C**

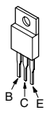



8pin DIP

**IRFIB7N50A-LF31**

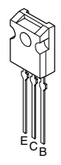



**1MB12-140-F153A**
**2SA2005**
**2SC4634LS-CB11**
**2SC5511**




**2SA1037AK-T146-QR**
**2SA1037AK-T146-R**
**2SA1226**
**2SA1226-T1E3E4**
**2SB709A-QRS-TX**
**2SC1623-L5L6**
**2SC2412K-T-146-QR**
**2SD601A-Q**
**2SD601A-QRS-TX**

**2SA1358-Y**
**2SC3421-Y**

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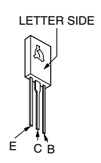


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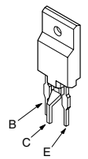
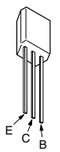
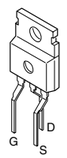


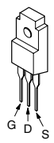

**2SD2144S-TP-V**
**2SD2144S-V**




**2SJ585LS-CC11**

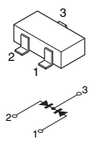



**2SK2876-01MR-F122**




**2SK3018-T106**

**DAN202K**
**DAN202K-T-146**

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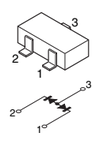
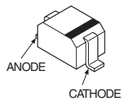
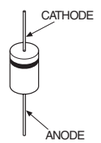


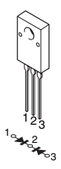

**DTZ10B**
**MA111-TX**
**UDZ-TE-17- 8.2B**
**UDZ-TE-17-7.5B**
**UDZS-TE17-12B**
**UDZS-TE17-22B**
**UDZS-TE17-33B**
**UDZSTE-1710B**
**UDZSTE-1720B**
**UDZSTE-175.1B**
**UDZSTE-175.6B**
**UDZSTE-177.5B**
**UDZSTE-178.2B**
**1SS355TE-17**




**D1NL20U**
**D1NL20U-TA2**
**D2L20U**
**D2L20U-TA**
**EL1Z**
**ERA22-08**
**ERA22-08TP3**
**GP08D**
**GP08DPKG23**
**MTZJ-T-77-18B**
**MTZJ-T-77-22B**
**MTZJ-T-77-5.6B**
**RGP02-17EL-6433**
**RGP02-17PKG23**
**RGP10GPKG23**
**S2L40F**
**10ERA60-TP**
**1SS83**
**1SS83TD**




**D10SC6M**

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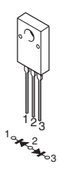
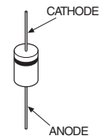
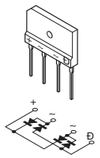



**D2L20U-F**
**ERC04-06SE**




**D2SB60A-F04**
**D4SBS4-F**
**D6SB60LF**



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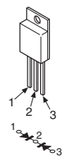


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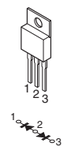
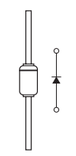
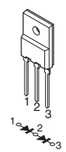


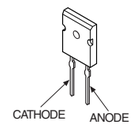

**ERD07-15L**



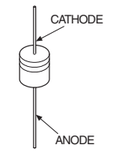
**FCQ30A04**



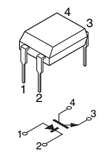

**FMQ-G5FMS**
**PG124S15**



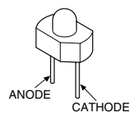

**MTZJ-T-77-15B**
**MTZJ-T-77-20B**
**MTZJ-T-77-5.1B**
**RD15ES-B2**
**RD18ES-B2**
**RD20ES-B2**
**RD5.1ESB2**
**RD5.6ESB2**
**1SS133T-77**



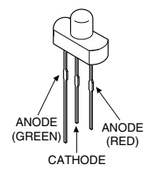

**PC123F2**
**PC123FY2**




**SLR-325VCT31**




**SPR-325MVW**



# SECTION 6: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

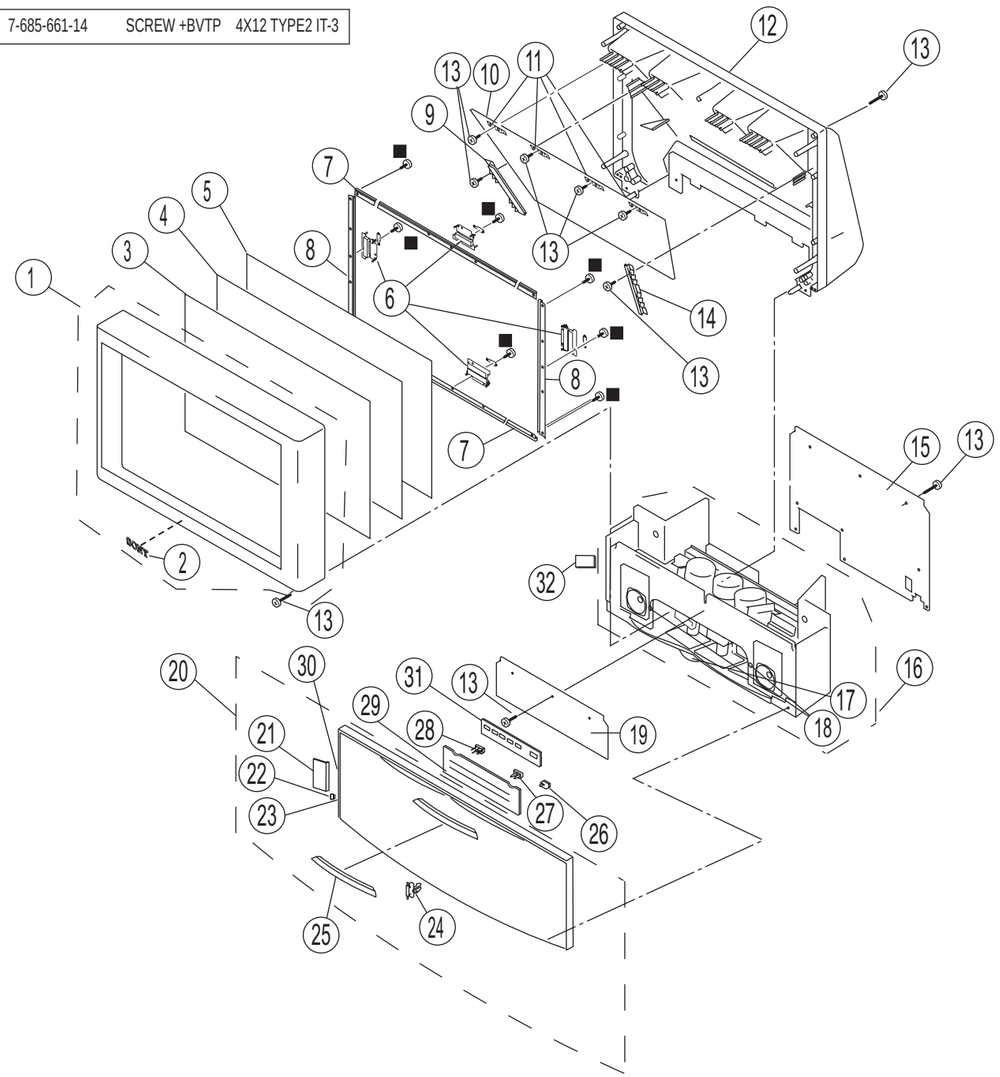
* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

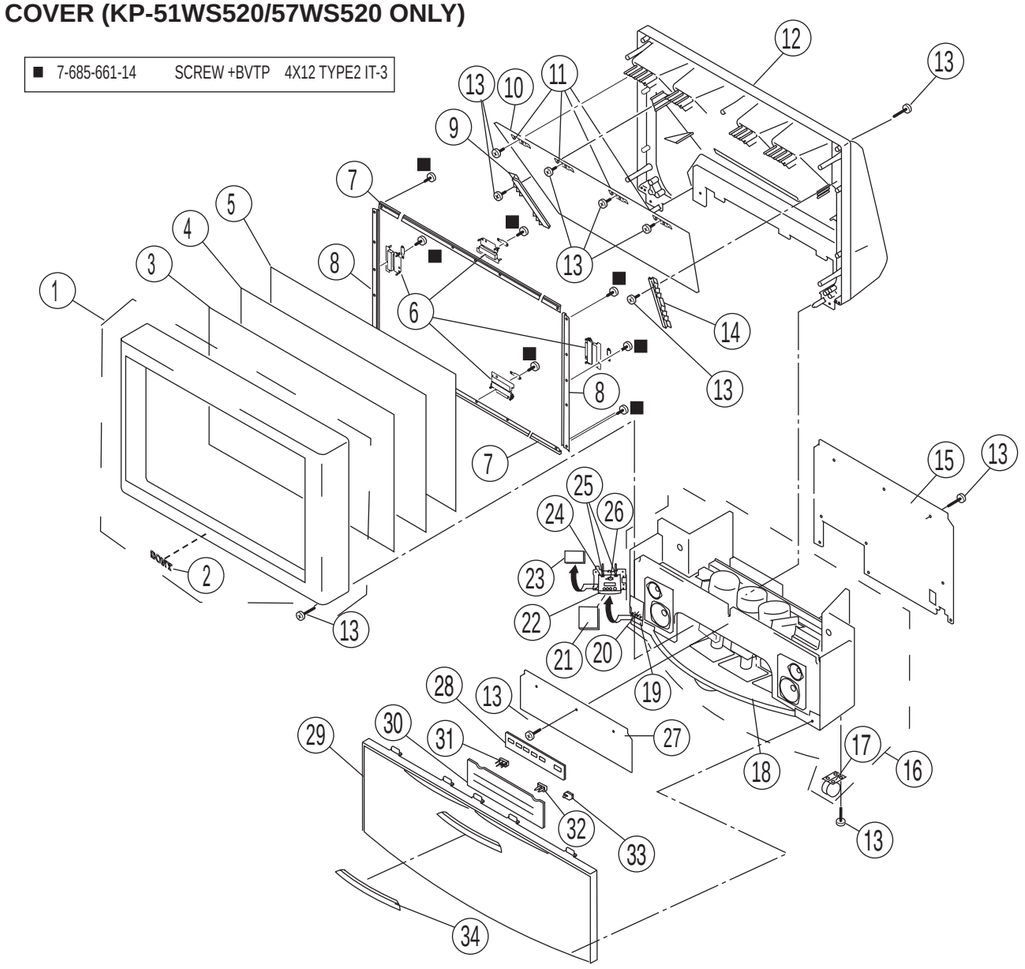
## 6-1. COVER (KP-46WT520 ONLY)

■ 7-685-661-14 SCREW +BVTP 4X12 TYPE2 IT-3




| REF.NO. | PART NO. | DESCRIPTION | ASSEMBLY INCLUDES |
|---|---|---|---|
| 1 | X-2021-272-1 | BEZEL (46) ASSY | [2] |
| 2 | 3-704-179-01 | EMBLEM (NO.9), SONY | |
| 3 | 4-090-943-11 | SCREEN (46W), CONTRAST | |
| 4 | 2-059-421-11 | PLATE (46WL), DIFFUSION | |
| 5 | 2-059-420-31 | PLATE (46WF), DIFFUSION | |
| * 6 | A-1405-083-A | SR BOARD, MOUNTED | |
| * 7 | 4-084-568-21 | HOLDER, SCREEN | |
| * 8 | 4-084-568-31 | HOLDER, SCREEN | |
| * 9 | 4-091-245-01 | HOLDER (46L), MIRROR | |
| 10 | 4-090-957-01 | MIRROR (46) | |
| * 11 | 4-081-501-01 | HOLDER, MIRROR | |
| * 12 | 4-090-956-11 | COVER (46), MIRROR | |
| 13 | 4-081-063-11 | SCREW,DOME WASHER HEX TAP 4X20 | |
| * 14 | 4-091-246-01 | HOLDER (46R), MIRROR | |
| * 15 | 2-023-379-01 | BOARD(46), REAR | |
| 16 | X-2021-174-1 | CABINET(46) ASSY,BOTTOM | [17-18] |
| 17 | 4-084-920-01 | FOOT | |
| 18 | 4-084-932-21 | CATCH (S) | |
| * 19 | 2-023-378-02 | BOARD(46), FRONT | |
| 20 | X-2021-274-1 | GRILLE (46) ASSY, SPEAKER | [21-24] |
| 21 | 2-023-212-11 | DOOR, SIDE TERMINAL | |
| 22 | 4-042-192-01 | CATCHER, PUSH | |
| 23 | 4-045-250-01 | DAMPER | |
| 24 | 3-703-035-11 | SHAFT, LID | |
| 25 | 2-023-098-01 | PANEL (S), CONTROL | |
| 26 | 2-023-102-01 | GUIDE, IR | |
| 27 | 2-023-101-01 | GUIDE, LED | |
| 28 | 2-023-096-01 | BUTTON (M) | |
| 29 | 2-023-100-01 | BUTTON, CONTROL | |
| 30 | 2-022-622-01 | LABEL, SIDE INPUT TERMINAL | |
| * 31 | A-1054-152-A | HA1 BOARD, MOUNTED | |
| * 32 | A-1054-799-A | HB2 BOARD, MOUNTED | |

## 6-2. COVER (KP-51WS520/57WS520 ONLY)




| REF.NO. | PART NO. | DESCRIPTION | ASSEMBLY INCLUDES |
|---|---|---|---|
| 1 | X-2021-273-1 | BEZEL (51) ASSY | [2] |
| | | (KP-51WS520 ONLY) | |
| 1 | X-2021-281-1 | BEZNET (57) ASSY | [2] |
| | | (KP-57WS520 ONLY) | |
| 2 | 3-704-179-01 | EMBLEM (NO.9), SONY | |
| | | (KP-51WS520 ONLY) | |
| 2 | 4-381-079-01 | EMBLEM (NO.10), SONY | |
| | | (KP-57WS520 ONLY) | |
| 3 | 4-090-910-11 | SCREEN (51), CONTRAST | |
| | | (KP-51WS520 ONLY) | |
| 3 | 4-090-881-11 | SCREEN (57), CONTRAST | |
| | | (KP-57WS520 ONLY) | |
| 4 | 2-059-423-31 | PLATE (51WL), DIFFUSION | |
| | | (KP-51WS520 ONLY) | |
| 4 | 2-059-426-11 | PLATE (57WL), DIFFUSION | |
| | | (KP-57WS520 ONLY) | |
| 5 | 2-059-422-31 | PLATE (51WFV), DIFFUSION | |
| | | (KP-51WS520 ONLY) | |
| 5 | 2-059-425-11 | PLATE (57WF), DIFFUSION | |
| | | (KP-57WS520 ONLY) | |
| * 6 | A-1405-083-A | SR BOARD, MOUNTED | |
| * 7 | 4-084-617-02 | HOLDER, SCREEN | |
| | | (KP-51WS520 ONLY) | |
| * 7 | 4-084-568-02 | HOLDER, SCREEN | |
| | | (KP-57WS520 ONLY) | |
| * 8 | 4-084-617-12 | HOLDER, SCREEN | |
| | | (KP-51WS520 ONLY) | |
| * 8 | 4-084-568-12 | HOLDER, SCREEN | |
| | | (KP-57WS520 ONLY) | |
| * 9 | 2-023-093-01 | HOLDER (L), MIRROR SIDE | |
| | | (KP-51WS520 ONLY) | |
| * 9 | 4-083-462-01 | HOLDER (L), MIRROR SIDE | |
| | | (KP-57WS520 ONLY) | |
| * 10 | 2-023-094-01 | MIRROR (51) | |
| | | (KP-51WS520 ONLY) | |
| 10 | 4-084-561-03 | MIRROR (57) | |
| | | (KP-57WS520 ONLY) | |
| * 11 | 4-081-501-01 | HOLDER, MIRROR | |
| * 12 | 2-023-091-01 | COVER (51), MIRROR | |
| | | (KP-51WS520 ONLY) | |
| * 12 | 4-083-466-11 | COVER (57), MIRROR | |
| | | (KP-57WS520 ONLY) | |
| 13 | 4-081-063-01 | SCREW,DOME WASHER HEX TAP 4X20 | |
| | | (KP-51WS520/57WS520 ONLY) | |
| * 14 | 2-023-092-01 | HOLDER (R), MIRROR SIDE | |
| | | (KP-51WS520 ONLY) | |
| * 14 | 4-083-461-01 | HOLDER (R), MIRROR SIDE | |
| | | (KP-57WS520 ONLY) | |

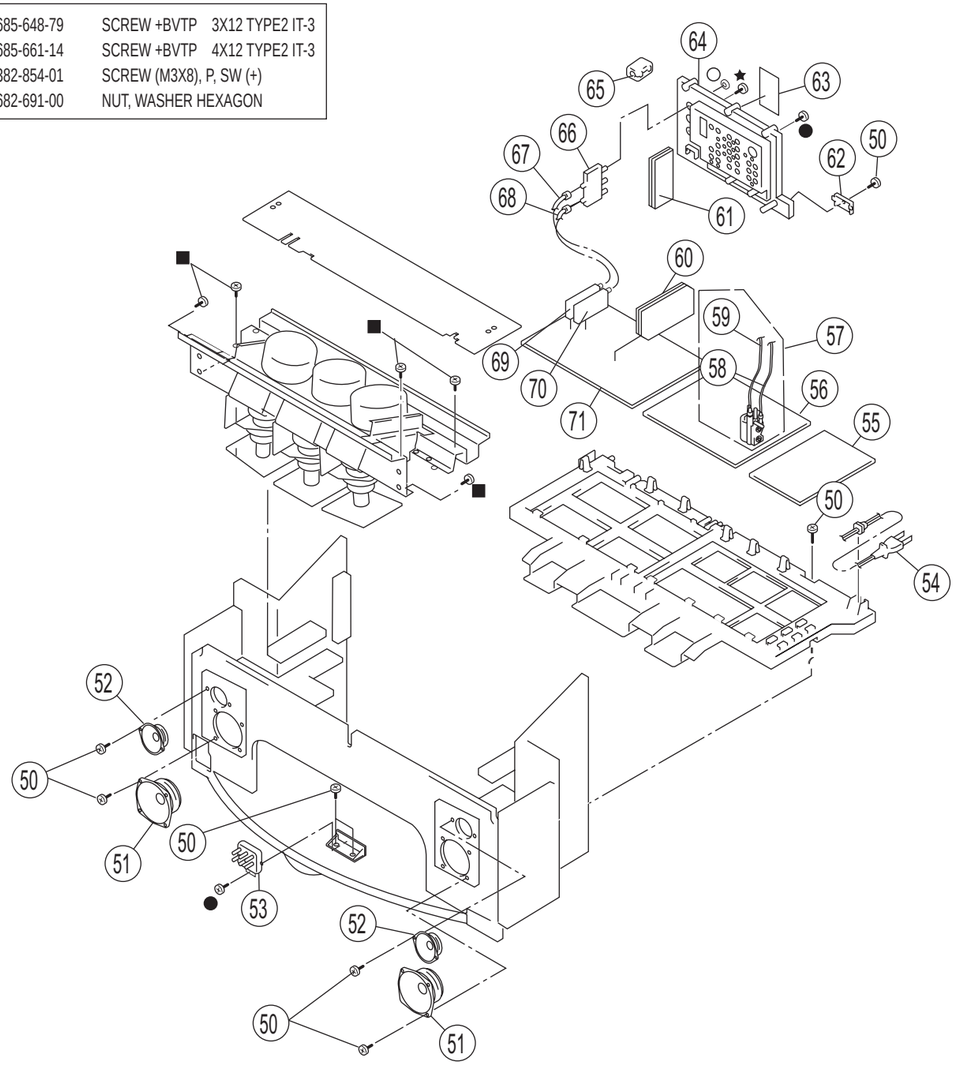
| REF.NO. | PART NO. | DESCRIPTION | ASSEMBLY INCLUDES |
|---|---|---|---|
| * 15 | 2-023-380-01 | BOARD(51), REAR | |
| | | (KP-51WS520 ONLY) | |
| * 15 | 2-022-468-01 | BOARD (57), REAR | |
| | | (KP-57WS520 ONLY) | |
| 16 | X-2021-270-1 | CABINET(51)ASSY, BOTTOM | [17] |
| | | (KP-51WS520 ONLY) | |
| 16 | X-2021-166-1 | CABINET (57), ASSY | [17] |
| | | (KP-57WS520 ONLY) | |
| 17 | 4-040-755-01 | CASTER (DIA. 30) | |
| | | (KP-51WS520/57WS520 ONLY) | |
| 18 | 2-023-069-01 | SKIRT (51), FRONT | |
| | | (KP-51WS520 ONLY) | |
| 18 | 2-022-470-01 | SKIRT (57), FRONT | |
| | | (KP-57WS520 ONLY) | |
| 19 | 4-088-572-01 | LABEL, INPUT TERMINAL | |
| | | (KP-51WS520/57WS520 ONLY) | |
| 20 | 4-088-569-03 | BRACKET, INPUT TERMINAL | |
| | | (KP-51WS520/57WS520 ONLY) | |
| 21 | 4-088-571-02 | PLATE, INPUT TERMINAL | |
| | | (KP-51WS520/57WS520 ONLY) | |
| 22 | 3-973-975-41 | DAMPER, OIL | |
| | | (KP-51WS520/57WS520 ONLY) | |
| * 23 | A-1054-154-A | HB1 BOARD, MOUNTED | |
| | | (KP-51WS520/57WS520 ONLY) | |
| 24 | 4-088-570-01 | COVER, INPUT TERMINAL | |
| | | (KP-51WS520/57WS520 ONLY) | |
| 25 | 4-088-573-01 | SPRING | |
| | | (KP-51WS520/57WS520 ONLY) | |
| 26 | 4-047-464-01 | CATCHER, PUSH | |
| | | (KP-51WS520/57WS520 ONLY) | |
| * 27 | 2-023-377-01 | BOARD(51), FRONT | |
| | | (KP-51WS520 ONLY) | |
| * 27 | 2-022-471-01 | BOARD (57), FRONT | |
| | | (KP-57WS520 ONLY) | |
| * 28 | A-1054-152-A | HA1 BOARD, MOUNTED | |
| 29 | X-2021-275-1 | GRILLE (51) ASSY, SPEAKER | |
| | | (KP-51WS520 ONLY) | |
| 29 | X-2021-167-1 | GRILLE (57) SPEAKER, ASSY | |
| | | (KP-57WS520 ONLY) | |
| 30 | 2-023-100-01 | BUTTON, CONTROL | |
| 31 | 2-023-096-01 | BUTTON (M) | |
| 32 | 2-023-102-01 | GUIDE, IR | |
| 33 | 2-023-101-01 | GUIDE, LED | |
| 34 | 2-023-098-01 | PANEL (S), CONTROL | |
| | | (KP-51WS520 ONLY) | |
| 34 | 2-023-097-01 | PANEL (L), CONTROL | |
| | | (KP-57WS520 ONLY) | |

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

## 6-3. CHASSIS

| | | |
|---|---|---|
| ● | 7-685-648-79 | SCREW +BVTP 3X12 TYPE2 IT-3 |
| ■ | 7-685-661-14 | SCREW +BVTP 4X12 TYPE2 IT-3 |
| ★ | 4-382-854-01 | SCREW (M3X8), P, SW (+) |
| ○ | 3-682-691-00 | NUT, WASHER HEXAGON |




| REF.NO. | PART NO. | DESCRIPTION | ASSEMBLY INCLUDES |
|---|---|---|---|
| 50 | 4-081-063-11 | SCREW,DOME WASHER HEX TAP 4X20 (KP-46WT520 ONLY) | |
| 50 | 4-081-063-01 | SCREW,DOME WASHER HEX TAP 4X20 (KP-51WS520/57WS520 ONLY) | |
| 51 | 1-544-893-21 | SPEAKER (10CM) (KP-46WT520 ONLY) | |
| 51 | 1-825-525-11 | LOUDSPEAKER (13CM) (KP-51WS520/57WS520 ONLY) | |
| 52 | 1-529-403-41 | LOUDSPEAKER (6.6CM) (KP-51WS520/57WS520 ONLY) | |
| ⚠ 53 | 1-223-925-34 | RESISTOR ASSY (HIGH-VOLTAGE) | |
| ⚠ 54 | 1-827-159-11 | CORD, AC POWER(WITH CONNECTOR) (KP-46WT520 ONLY) | |
| ⚠ 54 | 1-790-001-12 | CORD, AC POWER(WITH CONNECTOR) (KP-51WS520/57WS520 ONLY) | |
| * 55 | A-1054-157-A | G BOARD, COMPLETE | |
| ⚠ *56 | A-1054-155-A | D BOARD, COMPLETE | |
| | | The high-voltage leads associated with the FBT on the D board are not included and must be ordered separately. (See 58-60) | |
| ⚠ 57 | 1-453-450-11 | FBT ASSY NX-6030//M3A4 | [58-60] |
| ⚠ 58 | 1-779-095-51 | LEAD ASSY, HIGH-VOLTAGE | |
| ⚠ 59 | 1-900-260-40 | CONNECTOR ASSY, MV | |

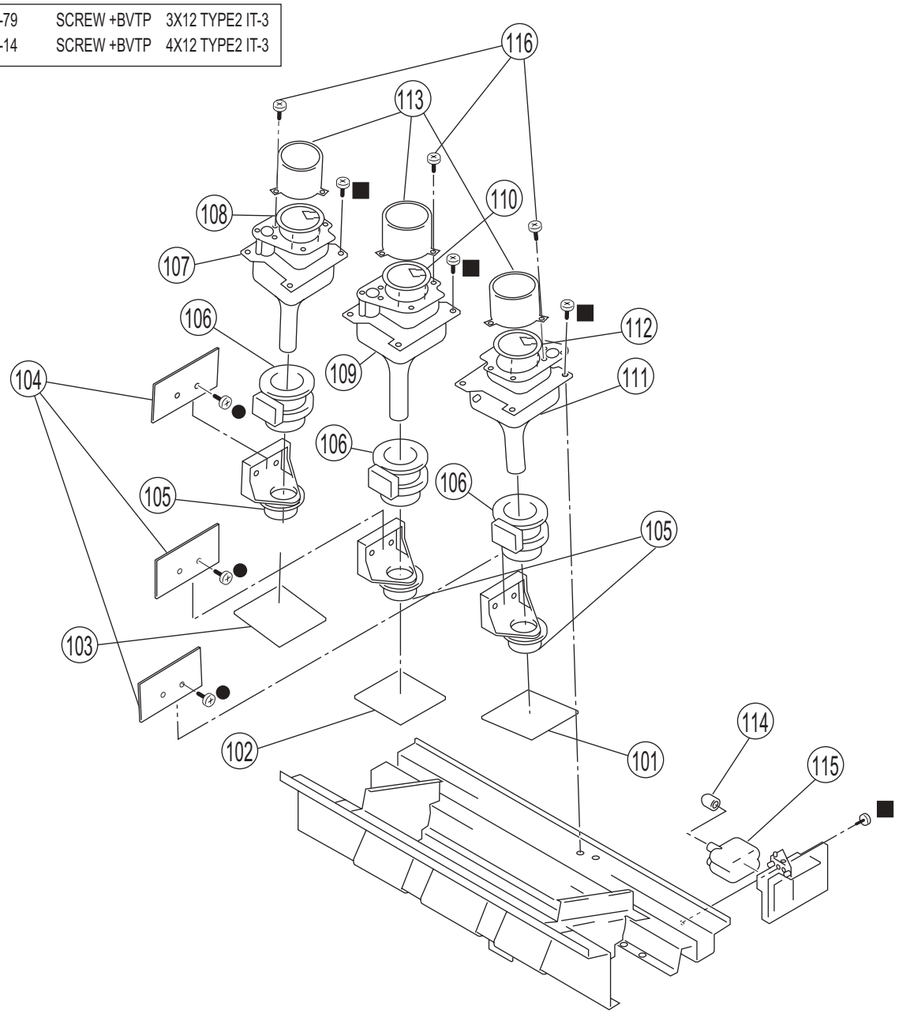
| REF.NO. | PART NO. | DESCRIPTION |
|---|---|---|
| * 60 | A-1063-104-A | BM BOARD, COMPLETE |
| * 60 | (See 71) | BH BOARD, COMPLETE |
| | If the BH board needs to be replaced use an A Board part number to order the replacement kit. | |
| * 61 | A-1068-754-A | P BOARD, COMPLETE |
| 62 | 4-069-675-01 | CAP, TERMINAL BOARD |
| 63 | 2-023-279-02 | LABEL, TERMINAL |
| 64 | 2-023-282-01 | BOARD, TERMINAL |
| 65 | 1-500-497-11 | FILTER, CLAMP (FERRITE CORE) |
| ⚠ 66 | 1-771-787-21 | SWITCH, RF ANTENNA |
| * 67 | 1-556-945-21 | CABLE, P-P |
| * 68 | 1-557-056-31 | CABLE, P-P |
| 69 | 8-598-594-10 | TUNER, FSS BTF-FA421 |
| ⚠ 70 | 8-598-593-20 | TUNER, FSS BTF-WA421 |
| * 71 | A-1054-149-A | A BOARD, COMPLETE |
| * 71 | A-1082-955-A | A BOARD, COMPLETE |
| | The A Boards are manufactured at different facilities. Either part can be used as a replacement. | |

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

## 6-4. PICTURE TUBE

| | | |
|---|---|---|
| ● 7-685-648-79 | SCREW +BVTP | 3X12 TYPE2 IT-3 |
| ■ 7-685-661-14 | SCREW +BVTP | 4X12 TYPE2 IT-3 |




| REF.NO. | PART NO. | DESCRIPTION |
|---|---|---|
| * 101 | A-1054-147-A | CB BOARD, MOUNTED |
| * 102 | A-1054-148-A | CG BOARD, MOUNTED |
| * 103 | A-1054-146-A | CR BOARD, MOUNTED |
| * 104 | A-1405-662-A | VM BOARD, MOUNTED |
| ⚠ 105 | 1-452-790-33 | NECK ASSEMBLY (KP-46WT520/51WS520 ONLY) |
| ⚠ 105 | 1-451-535-14 | COIL ASSY, VM (KP-57WS520 ONLY) |
| ⚠ 106 | 1-451-537-41 | DEFLECTION YOKE (KP-46WT520/51WS520 ONLY) |
| ⚠ 106 | 1-451-537-31 | DEFLECTION YOKE (KP-57WS520 ONLY) |
| ⚠ 107 | 8-735-184-05 | CRT 07MRC21(R) 16LWP12RFA (KP-46WT520 ONLY) |
| ⚠ 107 | A-1107-619-A | COUPLER (R) ASSY, CRT (KP-46WT520 SERIAL # 8,500,001 AND UP ONLY) |
| ⚠ 107 | 8-735-186-05 | CRT 07MRC31(R) 16LWP13RFA (KP-51WS520 ONLY) |
| ⚠ 107 | A-1107-617-A | COUPLER R) ASSY, CRT (KP-51WS520 SERIAL # 8,500,001 AND UP ONLY) |
| ⚠ 107 | A-1604-491-A | COUPLER (R) ASSY, CRT (KP-57WS520 ONLY) |
| 108 | 4-096-118-02 | SHADE (R) (KP-51WS520 SERIAL # 8,500,001 AND UP ONLY) |
| 108 | 4-088-542-02 | SHADE (R) (KP-57WS520 ONLY) |
| ⚠ 109 | 8-735-182-05 | CRT 07MRC21(G) 16LWP12HAA (KP-46WT520/51WS520 ONLY) |
| ⚠ 109 | A-1107-615-A | COUPLER (G) ASSY, CRT (KP-46WT520/51WS520 SERIAL # 8,500,001 AND UP ONLY) |
| ⚠ 109 | A-1604-483-A | COUPLER (G) ASSY, CRT (KP-57WS520 ONLY) |
| 110 | 4-096-119-02 | SHADE (G) (KP-51WS520 SERIAL # 8,500,001 AND UP ONLY) |
| 110 | 4-101-291-02 | SHADE (G) (KP-57WS520 ONLY) |
| ⚠ 111 | 8-735-183-05 | CRT 07MRC21(B) 16WP12BMB (KP-46WT520 ONLY) |
| ⚠ 111 | A-1107-618-A | COUPLER (B) ASSY, CRT (KP-46WT520 SERIAL # 8,500,001 AND UP ONLY) |
| ⚠ 111 | 8-735-185-05 | CRT 07MRC31(B) 16LWP13BMB (KP-51WS520 ONLY) |
| ⚠ 111 | A-1107-616-A | COUPLER (B) ASSY, CRT (KP-51WS520 SERIAL # 8,500,001 AND UP ONLY) |
| ⚠ 111 | A-1604-493-A | COUPLER (B) ASSY, CRT (KP-57WS520 ONLY) |
| 112 | 4-101-761-02 | SHADE (B) (KP-46WT520/51WS520 ONLY) |
| 112 | 2-590-896-01 | SHADE (B) (KP-51WS520 SERIAL # 8,500,001 AND UP ONLY) |
| 112 | 4-101-444-02 | SHADE BLUE (KP-57WS520 ONLY) |
| 113 | 4-083-751-01 | LENS (DELTA 250) (KP-46WT520/51WS520 ONLY) |
| 113 | 4-083-750-01 | LENS (DELTA 260) (KP-57WS520 ONLY) |
| 114 | 4-373-137-01 | CAP (Z), RUBBER |
| ⚠ 115 | 8-598-875-00 | BLOCK ASSY, HIGH-VOLTAGE |
| 116 | 7-685-663-71 | SCREW +BVTP 4X16 TYPE2 IT-3 |

# SECTION 7: ELECTRICAL PARTS LIST

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

**The components in this manual identified by the following symbol: ⋈ indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.**

**Should replacement be required for one of these components, replace only with the value originally used.**

*** Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.**

CR

**RESISTORS**
- **All resistors are in ohms**
- **F : nonflammable**
- **All variable and adjustable resistors have characteristic curve B, unless otherwise noted.**

**When ordering parts by reference number, please include the board name.**

| | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|
| CR | | | | | | |
| * | | **A-1054-146-A** | **CR BOARD, MOUNTED** | | | |
| | | 4-382-854-11 | SCREW (M3X10), P, SW (+) | | | |
| | | **CAPACITOR** | | | | |
| | C9101 | 1-104-570-11 | CERAMIC | 0.001µF | 10% | 2KV |
| | C9102 | 1-162-919-11 | CERAMIC CHIP | 22pF | 5% | 50V |
| | C9103 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| | C9105 | 1-107-962-11 | ELECT | 22µF | 20% | 250V |
| | C9106 | 1-162-114-00 | CERAMIC | 4700pF | | 1KV |
| | C9107 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| | C9108 | 1-126-935-11 | ELECT | 470µF | 20% | 16V |
| | C9110 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| | C9111 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| | C9112 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| | C9114 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| | C9115 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| | C9117 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| | | **CONNECTOR** | | | | |
| * | CN9101 | 1-564-510-11 | PLUG, CONNECTOR | | | 7P |
| * | CN9102 | 1-564-507-11 | PLUG, CONNECTOR | | | 4P |
| * | CN9103 | 1-564-508-11 | PLUG, CONNECTOR | | | 5P |
| | CN9104 | 1-695-915-11 | TAB (CONTACT) | | | |
| | CN9107 | 1-785-879-11 | CONNECTOR, ONE TOUCH | | | |
| | CN9110 | 1-695-915-11 | TAB (CONTACT) | | | |
| | | **DIODE** | | | | |
| | D9101 | 8-719-970-83 | DIODE | HSS82-TJ | | |
| | D9104 | 8-719-970-83 | DIODE | HSS82-TJ | | |
| | D9109 | 8-719-081-97 | DIODE | MMDL914T1 | | |

| | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|
| | | **FERRITE BEAD** | | | | |
| | FB9101 | 1-469-578-11 | FERRITE | 1.1µH | | |
| | | **IC** | | | | |
| | IC9101 | 8-759-680-01 | IC | TDA6120Q/N2/S1 | | |
| | | **JACK** | | | | |
| ⚠ | J9101 | 1-251-182-11 | SOCKET, CRT | | | |
| | | **COIL** | | | | |
| | L9101 | 1-414-856-11 | INDUCTOR | 10µH | | |
| | L9102 | 1-414-855-31 | INDUCTOR | 1µH | | |
| | L9103 | 1-414-856-11 | INDUCTOR | 10µH | | |
| | | **NEON LAMP** | | | | |
| ⚠ | NL9102 | 1-517-778-21 | LAMP, NEON | | | |
| | NL9103 | 1-517-778-21 | LAMP, NEON | | | |
| | | **TRANSISTOR** | | | | |
| | Q9101 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | | |
| | Q9102 | 8-729-028-28 | TRANSISTOR | 2SK2036(TE85L) | | |
| | Q9103 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | | |
| | Q9104 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | | |
| | Q9105 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 | | |
| | | **RESISTOR** | | | | |
| | R9101 | 1-260-133-11 | CARBON | 680K | 5% | 1/2W |
| | R9102 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| | R9103 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | R9104 | 1-260-132-11 | CARBON | 560K | 5% | 1/2W |

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

CR CB

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R9105 | 1-218-851-11 | METAL CHIP | 1.5K | 0.50% | 1/10W |
| R9106 | 1-218-835-11 | METAL CHIP | 330 | 0.50% | 1/10W |
| R9107 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R9108 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R9109 | 1-218-845-11 | METAL CHIP | 820 | 0.50% | 1/10W |
| R9110 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R9114 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| R9115 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R9116 | 1-260-328-11 | CARBON | 1K | 5% | 1/2W |
| R9120 | 1-243-624-71 | METAL OXIDE | 33K | 5% | 3W |
| R9122 | 1-260-320-11 | CARBON | 220 | 5% | 1/2W |
| R9126 | 1-218-903-11 | METAL CHIP | 220K | 0.50% | 1/10W |
| R9127 | 1-218-903-11 | METAL CHIP | 220K | 0.50% | 1/10W |
| R9129 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R9131 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/10W |
| R9132 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R9133 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9134 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R9135 | 1-260-087-11 | CARBON | 100 | 5% | 1/2W |
| R9136 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| R9137 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| R9147 | 1-216-864-11 | SHORT CHIP | | | |

**SPARK GAP**

| | | |
|---|---|---|
| SG9101 | 1-518-925-31 | GAP, SPARK |
| SG9102 | 1-519-422-11 | GAP, SPARK |
| SG9103 | 1-519-422-11 | GAP, SPARK |

CB

| | | |
|---|---|---|
| * | **A-1054-147-A** | **CB BOARD, MOUNTED** |
| | 4-382-854-11 | SCREW (M3X10), P, SW (+) |

**CAPACITOR**

| | | | | | |
|---|---|---|---|---|---|
| C5550 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| C9301 | 1-104-570-11 | CERAMIC | 0.001µF | 10% | 2KV |
| C9302 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C9303 | 1-107-662-11 | ELECT | 22µF | 20% | 350V |
| C9304 | 1-162-920-11 | CERAMIC CHIP | 27pF | 5% | 50V |
| C9305 | 1-162-916-11 | CERAMIC CHIP | 12pF | 5% | 50V |
| C9306 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C9307 | 1-126-935-11 | ELECT | 470µF | 20% | 16V |
| C9309 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C9310 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C9311 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C9312 | 1-162-114-00 | CERAMIC | 4700pF | | 1KV |
| C9313 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C9314 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C9315 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C9316 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C9318 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C9320 | 1-125-891-11 | CERAMIC CHIP | 0.47µF | 10% | 10V |

**CONNECTOR**

| | | | | |
|---|---|---|---|---|
| * | CN9301 | 1-564-511-11 | PLUG, CONNECTOR | 8P |
| * | CN9302 | 1-564-510-11 | PLUG, CONNECTOR | 7P |
| * | CN9303 | 1-564-507-11 | PLUG, CONNECTOR | 4P |
| | CN9304 | 1-695-915-11 | TAB (CONTACT) | |
| * | CN9305 | 1-580-689-11 | PIN, CONNECTOR (PC BOARD) | 4P |
| | CN9308 | 1-785-879-11 | CONNECTOR, ONE TOUCH | |
| * | CN9309 | 1-564-507-11 | PLUG, CONNECTOR | 4P |
| | CN9310 | 1-695-915-11 | TAB (CONTACT) | |

**DIODE**

| | | | |
|---|---|---|---|
| D5520 | 8-719-072-66 | DIODE | PDZ11B-115 |
| D9301 | 8-719-081-97 | DIODE | MMDL914T1 |
| D9302 | 8-719-970-83 | DIODE | HSS82-TJ |
| D9303 | 8-719-081-97 | DIODE | MMDL914T1 |
| D9305 | 6-500-029-01 | DIODE | MM3Z12VST1 |
| D9309 | 8-719-970-83 | DIODE | HSS82-TJ |

**FERRITE BEAD**

| | | | |
|---|---|---|---|
| FB5206 | 1-469-578-11 | FERRITE | 1.1µH |
| FB9301 | 1-469-578-11 | FERRITE | 1.1µH |

**IC**

| | | | |
|---|---|---|---|
| IC9301 | 8-759-680-01 | IC | TDA6120Q/N2/S1 |

**JACK**

| | | | |
|---|---|---|---|
| ⚠ | J9301 | 1-251-182-11 | SOCKET, CRT |

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

CB CG

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| | **COIL** | | | | |
| L9301 | 1-414-856-11 | INDUCTOR | 10µH | | |
| L9302 | 1-414-855-31 | INDUCTOR | 1µH | | |
| L9303 | 1-414-856-11 | INDUCTOR | 10µH | | |
| | **NEON LAMP** | | | | |
| ⚠ NL9302 | 1-517-778-21 | LAMP, NEON | | | |
| NL9303 | 1-517-778-21 | LAMP, NEON | | | |
| | **TRANSISTOR** | | | | |
| Q5520 | 6-550-659-01 | TRANSISTOR | 2SC4634LS-YB11 | | |
| Q5523 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | | |
| Q9301 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | | |
| Q9302 | 8-729-028-28 | TRANSISTOR | 2SK2036(TE85L) | | |
| Q9304 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | | |
| Q9305 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | | |
| Q9306 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | | |
| Q9307 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | | |
| Q9309 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 | | |
| Q9311 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | | |
| | **RESISTOR** | | | | |
| R5574 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5575 | 1-260-131-11 | CARBON | 470K | 5% | 1/2W |
| R5576 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5577 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5578 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R5580 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R9301 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9302 | 1-216-864-11 | SHORT CHIP | | | |
| R9303 | 1-260-133-11 | CARBON | 680K | 5% | 1/2W |
| R9304 | 1-260-132-11 | CARBON | 560K | 5% | 1/2W |
| R9306 | 1-218-831-11 | METAL CHIP | 220 | 0.50% | 1/10W |
| R9307 | 1-218-851-11 | METAL CHIP | 1.5K | 0.50% | 1/10W |
| R9308 | 1-218-839-11 | METAL CHIP | 470 | 0.50% | 1/10W |
| R9309 | 1-218-849-11 | METAL CHIP | 1.2K | 0.50% | 1/10W |
| R9313 | 1-218-877-11 | METAL CHIP | 18K | 0.50% | 1/10W |
| R9314 | 1-218-862-11 | METAL CHIP | 4.3K | 0.50% | 1/10W |
| R9315 | 1-218-859-11 | METAL CHIP | 3.3K | 0.50% | 1/10W |
| R9316 | 1-218-853-11 | METAL CHIP | 1.8K | 0.50% | 1/10W |
| R9317 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R9318 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R9319 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R9320 | 1-243-624-71 | METAL OXIDE | 33K | 5% | 3W |
| R9323 | 1-260-328-11 | CARBON | 1K | 5% | 1/2W |
| R9325 | 1-260-320-11 | CARBON | 220 | 5% | 1/2W |
| R9327 | 1-218-901-11 | METAL CHIP | 180K | 0.50% | 1/10W |
| R9328 | 1-218-907-11 | METAL CHIP | 330K | 0.50% | 1/10W |
| R9330 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R9332 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/10W |
| R9333 | 1-218-854-11 | METAL CHIP | 2K | 0.50% | 1/10W |
| R9334 | 1-216-822-11 | METAL CHIP | 1.2K | 5% | 1/10W |
| R9335 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R9339 | 1-260-087-11 | CARBON | 100 | 5% | 1/2W |
| R9340 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R9342 | 1-216-834-11 | METAL CHIP | 12K | 5% | 1/10W |
| R9343 | 1-216-832-11 | METAL CHIP | 8.2K | 5% | 1/10W |
| R9344 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R9345 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R9346 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R9347 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R9348 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R9349 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9350 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| R9351 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| R9352 | 1-216-864-11 | SHORT CHIP | | | |
| R9355 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9356 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | **SPARK GAP** | | | | |
| SG9301 | 1-518-925-31 | GAP, SPARK | | | |
| SG9302 | 1-519-422-11 | GAP, SPARK | | | |
| SG9303 | 1-519-422-11 | GAP, SPARK | | | |

CG

| | | | |
|---|---|---|---|
| * | **A-1054-148-A** | **CG BOARD, MOUNTED** | |
| | 4-382-854-11 | SCREW (M3X10), P, SW (+) | |
| | **CAPACITOR** | | |
| C9201 | 1-107-662-11 | ELECT | 22µF 20% 350V |
| C9202 | 1-104-570-11 | CERAMIC | 0.001µF 10% 2KV |
| C9203 | 1-164-156-11 | CERAMIC CHIP | 0.1µF 25V |
| C9204 | 1-126-935-11 | ELECT | 470µF 20% 16V |

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

CG

| | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|
| | C9205 | 1-164-378-11 | CERAMIC CHIP | 30pF | 5% | 50V |
| | C9207 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| | C9208 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| | C9209 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| | C9211 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| | C9213 | 1-162-114-00 | CERAMIC | 4700pF | | 1KV |
| | C9214 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| | C9216 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| | C9217 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| | | **CONNECTOR** | | | | |
| * | CN9201 | 1-564-510-11 | PLUG, CONNECTOR | | | 7P |
| * | CN9202 | 1-564-510-11 | PLUG, CONNECTOR | | | 7P |
| * | CN9203 | 1-564-507-11 | PLUG, CONNECTOR | | | 4P |
| * | CN9204 | 1-564-507-11 | PLUG, CONNECTOR | | | 4P |
| * | CN9205 | 1-564-506-11 | PLUG, CONNECTOR | | | 3P |
| | CN9208 | 1-695-915-11 | TAB (CONTACT) | | | |
| | CN9209 | 1-785-879-11 | CONNECTOR, ONE TOUCH | | | |
| | CN9210 | 1-695-915-11 | TAB (CONTACT) | | | |
| | | **DIODE** | | | | |
| | D9201 | 8-719-970-83 | DIODE | HSS82-TJ | | |
| | D9206 | 8-719-970-83 | DIODE | HSS82-TJ | | |
| | D9209 | 8-719-081-97 | DIODE | MMDL914T1 | | |
| | | **FERRITE BEAD** | | | | |
| | FB9201 | 1-469-578-11 | FERRITE | 1.1µH | | |
| | | **IC** | | | | |
| | IC9201 | 8-759-680-01 | IC | TDA6120Q/N2/S1 | | |
| | | **JACK** | | | | |
| ⚠ | J9201 | 1-251-182-11 | SOCKET, CRT | | | |
| | | **COIL** | | | | |
| | L9201 | 1-414-856-11 | INDUCTOR | 10µH | | |
| | L9202 | 1-414-855-31 | INDUCTOR | 1µH | | |
| | L9203 | 1-414-856-11 | INDUCTOR | 10µH | | |

| | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|
| | | **NEON LAMP** | | | | |
| ⚠ | NL9202 | 1-517-778-21 | LAMP, NEON | | | |
| | NL9203 | 1-517-778-21 | LAMP, NEON | | | |
| | | **TRANSISTOR** | | | | |
| | Q9201 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | | |
| | Q9202 | 8-729-028-28 | TRANSISTOR | 2SK2036(TE85L) | | |
| | Q9203 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | | |
| | Q9204 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 | | |
| | | **RESISTOR** | | | | |
| | R9201 | 1-260-133-11 | CARBON | 680K | 5% | 1/2W |
| | R9202 | 1-260-132-11 | CARBON | 560K | 5% | 1/2W |
| | R9203 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| | R9204 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | R9205 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| | R9206 | 1-218-832-11 | METAL CHIP | 240 | 0.50% | 1/10W |
| | R9207 | 1-218-849-11 | METAL CHIP | 1.2K | 0.50% | 1/10W |
| | R9208 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| | R9209 | 1-218-845-11 | METAL CHIP | 820 | 0.50% | 1/10W |
| | R9211 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| | R9216 | 1-218-854-11 | METAL CHIP | 2K | 0.50% | 1/10W |
| | R9217 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| | R9220 | 1-243-624-71 | METAL OXIDE | 33K | 5% | 3W |
| | R9221 | 1-260-328-11 | CARBON | 1K | 5% | 1/2W |
| | R9223 | 1-260-320-11 | CARBON | 220 | 5% | 1/2W |
| | R9225 | 1-218-899-11 | METAL CHIP | 150K | 0.50% | 1/16W |
| | R9226 | 1-218-899-11 | METAL CHIP | 150K | 0.50% | 1/16W |
| | R9228 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| | R9230 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/10W |
| | R9231 | 1-260-087-11 | CARBON | 100 | 5% | 1/2W |
| | R9232 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| | R9233 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| | | **SPARK GAP** | | | | |
| | SG9201 | 1-518-925-31 | GAP, SPARK | | | |
| | SG9202 | 1-519-422-11 | GAP, SPARK | | | |
| | SG9203 | 1-519-422-11 | GAP, SPARK | | | |

VM

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| VM | | | | | |
| * | **A-1405-662-A** | **VM BOARD, MOUNTED** | | | |
| | 4-382-854-11 | SCREW (M3X10), P, SW (+) | | | |
| | | **CAPACITOR** | | | |
| | C9001 | 1-126-933-11 | ELECT | 100µF | 20% 16V |
| | C9002 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | 25V |
| | C9003 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% 50V |
| | C9004 | 1-107-645-11 | ELECT | 22µF | 20% 200V |
| | C9006 | 1-162-114-00 | CERAMIC | 4700pF | 1KV |
| | C9007 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | 25V |
| | C9008 | 1-126-964-11 | ELECT | 10µF | 20% 50V |
| | C9009 | 1-107-636-11 | ELECT | 10µF | 20% 160V |
| | C9010 | 1-137-528-11 | MYLAR | 0.1µF | 10% 250V |
| | C9011 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% 16V |
| | C9012 | 1-137-528-11 | MYLAR | 0.1µF | 10% 250V |
| | C9013 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | 25V |
| | C9014 | 1-117-450-11 | MYLAR | 0.47µF | 10% 250V |
| | | **CONNECTOR** | | | |
| * | CN9001 | 1-564-508-11 | PLUG, CONNECTOR | | 5P |
| * | CN9002 | 1-564-506-11 | PLUG, CONNECTOR | | 3P |
| * | CN9003 | 1-770-723-11 | CONNECTOR, BOARD TO BOARD | | 8P |
| | | **FERRITE BEAD** | | | |
| | FB9001 | 1-469-869-21 | FERRITE | 0µH | |
| | FB9002 | 1-469-869-21 | FERRITE | 0µH | |
| | | **CHIP CONDUCTOR** | | | |
| | JR9001 | 1-216-864-11 | SHORT CHIP | | |
| | JR9002 | 1-216-864-11 | SHORT CHIP | | |
| | | **TRANSISTOR** | | | |
| | Q9001 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q | |
| | Q9002 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q | |
| | Q9003 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q | |
| | Q9004 | 8-729-424-02 | TRANSISTOR | 2SB709A-QRS-TX | |
| | Q9005 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q | |
| | Q9006 | 8-729-424-02 | TRANSISTOR | 2SB709A-QRS-TX | |
| | Q9007 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q | |
| | Q9008 | 8-729-424-02 | TRANSISTOR | 2SB709A-QRS-TX | |
| | Q9009 | 8-729-422-27 | TRANSISTOR | 2SD601A-Q | |
| | Q9010 | 8-729-424-02 | TRANSISTOR | 2SB709A-QRS-TX | |
| | Q9011 | 8-729-045-05 | TRANSISTOR | 2SA2005 | |
| | Q9012 | 8-729-045-04 | TRANSISTOR | 2SC5511 | |
| | | **RESISTOR** | | | |
| | R9001 | 1-249-381-11 | CARBON | 1 | 5% 1/4W |
| | R9002 | 1-216-820-11 | METAL CHIP | 820 | 5% 1/10W |
| | R9003 | 1-216-819-11 | METAL CHIP | 680 | 5% 1/10W |
| | R9004 | 1-216-834-11 | METAL CHIP | 12K | 5% 1/10W |
| | R9005 | 1-216-839-11 | METAL CHIP | 33K | 5% 1/10W |
| | R9006 | 1-216-811-11 | METAL CHIP | 150 | 5% 1/10W |
| | R9008 | 1-216-815-11 | METAL CHIP | 330 | 5% 1/10W |
| | R9009 | 1-216-813-11 | METAL CHIP | 220 | 5% 1/10W |
| | R9010 | 1-216-813-11 | METAL CHIP | 220 | 5% 1/10W |
| | R9011 | 1-249-391-11 | CARBON | 6.8 | 5% 1/4W |
| | R9012 | 1-249-391-11 | CARBON | 6.8 | 5% 1/4W |
| | R9013 | 1-249-391-11 | CARBON | 6.8 | 5% 1/4W |
| | R9014 | 1-249-391-11 | CARBON | 6.8 | 5% 1/4W |
| | R9015 | 1-249-391-11 | CARBON | 6.8 | 5% 1/4W |
| | R9016 | 1-249-391-11 | CARBON | 6.8 | 5% 1/4W |
| | R9017 | 1-249-391-11 | CARBON | 6.8 | 5% 1/4W |
| | R9018 | 1-249-391-11 | CARBON | 6.8 | 5% 1/4W |
| | R9019 | 1-216-848-11 | METAL CHIP | 180K | 5% 1/10W |
| | R9020 | 1-216-829-11 | METAL CHIP | 4.7K | 5% 1/10W |
| | R9021 | 1-216-805-11 | METAL CHIP | 47 | 5% 1/10W |
| | R9022 | 1-216-805-11 | METAL CHIP | 47 | 5% 1/10W |
| | R9023 | 1-216-829-11 | METAL CHIP | 4.7K | 5% 1/10W |
| | R9024 | 1-216-848-11 | METAL CHIP | 180K | 5% 1/10W |
| | R9025 | 1-243-572-71 | METAL OXIDE | 470 | 5% 2W |
| | R9026 | 1-216-847-11 | METAL CHIP | 150K | 5% 1/10W |
| | R9027 | 1-216-847-11 | METAL CHIP | 150K | 5% 1/10W |

A

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| A | | | | | |
| | * A-1054-149-A | A BOARD, COMPLETE | | | |
| ☛ | * A-1082-955-A | A BOARD, COMPLETE | | | |
| | The A Boards are manufactured at different facilities. Either part can be used as a replacement. | | | | |
| | 4-382-854-11 | SCREW (M3X10), P, SW (+) | | | |
| | **CAPACITOR** | | | | |
| C1 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C2 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C3 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C4 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C5 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C6 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C8 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C9 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C10 | 1-126-935-11 | ELECT | 470µF | 20% | 16V |
| C11 | 1-117-720-11 | CERAMIC CHIP | 4.7µF | | 10V |
| C12 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C13 | 1-117-720-11 | CERAMIC CHIP | 4.7µF | | 10V |
| C14 | 1-117-720-11 | CERAMIC CHIP | 4.7µF | | 10V |
| C15 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C16 | 1-117-720-11 | CERAMIC CHIP | 4.7µF | | 10V |
| C17 | 1-117-720-11 | CERAMIC CHIP | 4.7µF | | 10V |
| C18 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| C19 | 1-165-176-11 | CERAMIC CHIP | 0.047µF | 10% | 16V |
| C20 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C21 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V |
| C22 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V |
| C23 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V |
| C24 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V |
| C25 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V |
| C26 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V |
| C27 | 1-164-230-11 | CERAMIC CHIP | 220pF | 5% | 50V |
| C28 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C32 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C33 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C34 | 1-117-720-11 | CERAMIC CHIP | 4.7µF | | 10V |
| C35 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C36 | 1-117-720-11 | CERAMIC CHIP | 4.7µF | | 10V |
| C39 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C40 | 1-162-913-11 | CERAMIC CHIP | 8pF | 0.50pF | 50V |
| C41 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C42 | 1-162-913-11 | CERAMIC CHIP | 8pF | 0.50pF | 50V |
| C43 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C45 | 1-117-720-11 | CERAMIC CHIP | 4.7µF | | 10V |
| C49 | 1-164-315-11 | CERAMIC CHIP | 470pF | 5% | 50V |
| C50 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C52 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| C53 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C54 | 1-165-176-11 | CERAMIC CHIP | 0.047µF | 10% | 16V |
| C57 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C58 | 1-164-230-11 | CERAMIC CHIP | 220pF | 5% | 50V |
| C60 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C62 | 1-126-925-91 | ELECT | 470µF | 20% | 10V |
| C63 | 1-126-947-11 | ELECT | 47µF | 20% | 35V |
| C64 | 1-126-967-11 | ELECT | 47µF | 20% | 50V |
| C65 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C66 | 1-164-315-11 | CERAMIC CHIP | 470pF | 5% | 50V |
| C67 | 1-164-315-11 | CERAMIC CHIP | 470pF | 5% | 50V |
| C68 | 1-164-315-11 | CERAMIC CHIP | 470pF | 5% | 50V |
| C69 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C70 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C71 | 1-126-925-91 | ELECT | 470µF | 20% | 10V |
| C72 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C73 | 1-117-720-11 | CERAMIC CHIP | 4.7µF | | 10V |
| C74 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C75 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C76 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C77 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C78 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C79 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C80 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C81 | 1-126-935-11 | ELECT | 470µF | 20% | 16V |
| C82 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C83 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C84 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C85 | 1-109-982-11 | CERAMIC CHIP | 1µF | 10% | 10V |
| C86 | 1-126-925-91 | ELECT | 470µF | 20% | 10V |
| C87 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V |
| C88 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C89 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V |
| C90 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C91 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C92 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C95 | 1-126-935-11 | ELECT | 470µF | 20% | 16V |
| C96 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |

A

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C97 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C346 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C98 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C347 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C99 | 1-164-505-11 | CERAMIC CHIP | 2.2µF | | 16V | C350 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C100 | 1-164-505-11 | CERAMIC CHIP | 2.2µF | | 16V | C351 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C101 | 1-117-720-11 | CERAMIC CHIP | 4.7µF | | 10V | C352 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C106 | 1-164-505-11 | CERAMIC CHIP | 2.2µF | | 16V | C353 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C107 | 1-126-933-11 | ELECT | 100µF | 20% | 16V | C354 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C108 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C355 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C109 | 1-164-505-11 | CERAMIC CHIP | 2.2µF | | 16V | C356 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C110 | 1-164-505-11 | CERAMIC CHIP | 2.2µF | | 16V | C357 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C111 | 1-164-505-11 | CERAMIC CHIP | 2.2µF | | 16V | C360 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C112 | 1-117-720-11 | CERAMIC CHIP | 4.7µF | | 10V | C361 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C113 | 1-117-720-11 | CERAMIC CHIP | 4.7µF | | 10V | C363 | 1-162-917-11 | CERAMIC CHIP | 15pF | 5% | 50V |
| C114 | 1-126-960-11 | ELECT | 1µF | 20% | 50V | C364 | 1-162-917-11 | CERAMIC CHIP | 15pF | 5% | 50V |
| C115 | 1-126-960-11 | ELECT | 1µF | 20% | 50V | C365 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C116 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C366 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C123 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V | C376 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C124 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V | C377 | 1-164-315-11 | CERAMIC CHIP | 470pF | 5% | 50V |
| C125 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V | C378 | 1-162-915-11 | CERAMIC CHIP | 10pF | 0.50pF | 50V |
| C126 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V | C380 | 1-125-891-11 | CERAMIC CHIP | 0.47µF | 10% | 10V |
| C127 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V | C381 | 1-125-891-11 | CERAMIC CHIP | 0.47µF | 10% | 10V |
| C128 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V | C382 | 1-125-891-11 | CERAMIC CHIP | 0.47µF | 10% | 10V |
| C303 | 1-162-917-11 | CERAMIC CHIP | 15pF | 5% | 50V | C383 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C304 | 1-126-933-11 | ELECT | 100µF | 20% | 16V | C385 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C305 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C386 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C306 | 1-126-964-11 | ELECT | 10µF | 20% | 50V | C392 | 1-126-963-11 | ELECT | 4.7µF | 20% | 50V |
| C317 | 1-128-954-11 | ELECT | 1000µF | 20% | 25V | C398 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C318 | 1-128-954-11 | ELECT | 1000µF | 20% | 25V | C402 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C320 | 1-164-227-11 | CERAMIC CHIP | 0.022µF | 10% | 25V | C403 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C321 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C406 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C322 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C408 | 1-125-891-11 | CERAMIC CHIP | 0.47µF | 10% | 10V |
| C326 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V | C412 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C328 | 1-128-954-11 | ELECT | 1000µF | 20% | 25V | C415 | 1-126-963-11 | ELECT | 4.7µF | 20% | 50V |
| C331 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C416 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C332 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C418 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C334 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C420 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C336 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C425 | 1-125-891-11 | CERAMIC CHIP | 0.47µF | 10% | 10V |
| C337 | 1-128-942-31 | ELECT | 1000µF | 20% | 6.3V | C426 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C338 | 1-128-945-31 | ELECT | 1000µF | 20% | 10V | C427 | 1-162-919-11 | CERAMIC CHIP | 22pF | 5% | 50V |
| C339 | 1-128-950-31 | ELECT | 1000µF | 20% | 16V | C433 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C342 | 1-126-916-11 | ELECT | 1000µF | 20% | 6.3V | C434 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C343 | 1-126-926-11 | ELECT | 1000µF | 20% | 10V | C435 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C344 | 1-126-935-11 | ELECT | 470µF | 20% | 16V | C436 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C345 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C437 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| C438 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C451 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C452 | 1-126-960-11 | ELECT | 1µF | 20% | 50V |
| C455 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C456 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C457 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C458 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C459 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C460 | 1-165-733-31 | ELECT | 100µF | 20% | 25V |
| C461 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| C462 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C463 | 1-127-715-91 | CERAMIC CHIP | 0.22µF | 10% | 16V |
| C464 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C465 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C466 | 1-125-891-11 | CERAMIC CHIP | 0.47µF | 10% | 10V |
| C467 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C468 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C469 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| C470 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C471 | 1-162-968-11 | CERAMIC CHIP | 0.0047µF | 10% | 50V |
| C472 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C474 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C475 | 1-126-935-11 | ELECT | 470µF | 20% | 16V |
| C476 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C477 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C478 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C479 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C480 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C481 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C482 | 1-126-962-11 | ELECT | 3.3µF | 20% | 50V |
| C483 | 1-125-891-11 | CERAMIC CHIP | 0.47µF | 10% | 10V |
| C484 | 1-162-923-11 | CERAMIC CHIP | 47pF | 5% | 50V |
| C485 | 1-125-891-11 | CERAMIC CHIP | 0.47µF | 10% | 10V |
| C486 | 1-164-004-11 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C487 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C488 | 1-164-004-11 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C489 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C490 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C494 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C495 | 1-126-963-11 | ELECT | 4.7µF | 20% | 50V |
| C496 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C497 | 1-126-963-11 | ELECT | 4.7µF | 20% | 50V |
| C501 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C502 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C503 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C504 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C505 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C506 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C507 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C508 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C509 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C510 | 1-127-715-91 | CERAMIC CHIP | 0.22µF | 10% | 16V |
| C511 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C512 | 1-110-563-11 | CERAMIC CHIP | 0.068µF | 10% | 16V |
| C513 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C514 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C515 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C516 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C517 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C518 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C519 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| C525 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C530 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| C601 | 1-100-158-91 | CERAMIC CHIP | 1000pF | 5% | 100V |
| C602 | 1-126-041-11 | ELECT | 2200µF | 20% | 35V |
| C603 | 1-126-041-11 | ELECT | 2200µF | 20% | 35V |
| C604 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C605 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C606 | 1-137-190-91 | FILM | 0.22µF | 5% | 50V |
| C607 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| C609 | 1-164-363-11 | CERAMIC CHIP | 560pF | 5% | 50V |
| C611 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C612 | 1-136-497-81 | FILM | 0.1µF | 5% | 50V |
| C613 | 1-164-363-11 | CERAMIC CHIP | 560pF | 5% | 50V |
| C614 | 1-100-158-91 | CERAMIC CHIP | 1000pF | 5% | 100V |
| C615 | 1-164-677-11 | CERAMIC CHIP | 0.033µF | 10% | 16V |
| C617 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C619 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C620 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| C621 | 1-164-315-11 | CERAMIC CHIP | 470pF | 5% | 50V |
| C622 | 1-162-975-11 | CERAMIC CHIP | 24pF | 5% | 50V |
| C623 | 1-126-947-11 | ELECT | 47µF | 20% | 35V |
| C624 | 1-136-497-81 | FILM | 0.1µF | 5% | 50V |
| C625 | 1-164-315-11 | CERAMIC CHIP | 470pF | 5% | 50V |
| C626 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C628 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C629 | 1-126-960-11 | ELECT | 1µF | 20% | 50V |
| C630 | 1-162-969-11 | CERAMIC CHIP | 0.0068µF | 10% | 25V |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C631 | 1-162-959-11 | CERAMIC CHIP | 330pF | 5% | 50V | C676 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C633 | 1-126-947-11 | ELECT | 47µF | 20% | 35V | C677 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C634 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C678 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V |
| C635 | 1-100-158-91 | CERAMIC CHIP | 1000pF | 5% | 100V | C679 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V |
| C636 | 1-137-190-91 | FILM | 0.22µF | 5% | 50V | C680 | 1-137-190-91 | FILM | 0.22µF | 5% | 50V |
| C637 | 1-162-959-11 | CERAMIC CHIP | 330pF | 5% | 50V | C681 | 1-137-365-11 | MYLAR | 0.0015µF | 5% | 50V |
| C638 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C682 | 1-136-159-00 | FILM | 0.033µF | 5% | 50V |
| C639 | 1-162-969-11 | CERAMIC CHIP | 0.0068µF | 10% | 25V | C683 | 1-137-367-11 | MYLAR | 0.0033µF | 5% | 50V |
| C640 | 1-164-315-11 | CERAMIC CHIP | 470pF | 5% | 50V | C684 | 1-137-190-91 | FILM | 0.22µF | 5% | 50V |
| C641 | 1-126-960-11 | ELECT | 1µF | 20% | 50V | C685 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C642 | 1-164-315-11 | CERAMIC CHIP | 470pF | 5% | 50V | C686 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C643 | 1-100-158-91 | CERAMIC CHIP | 1000pF | 5% | 100V | C687 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C644 | 1-126-947-11 | ELECT | 47µF | 20% | 35V | C688 | 1-136-177-00 | FILM | 1µF | 5% | 50V |
| C645 | 1-126-066-11 | ELECT | 470µF | 20% | 63V | C689 | 1-136-177-00 | FILM | 1µF | 5% | 50V |
| C646 | 1-164-363-11 | CERAMIC CHIP | 560pF | 5% | 50V | C690 | 1-136-497-81 | FILM | 0.1µF | 5% | 50V |
| C647 | 1-164-677-11 | CERAMIC CHIP | 0.033µF | 10% | 16V | C691 | 1-136-497-81 | FILM | 0.1µF | 5% | 50V |
| C648 | 1-100-158-91 | CERAMIC CHIP | 1000pF | 5% | 100V | C692 | 1-162-974-11 | CERAMIC CHIP | 0.01µF | | 50V |
| C649 | 1-164-363-11 | CERAMIC CHIP | 560pF | 5% | 50V | C701 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C650 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C702 | 1-162-968-11 | CERAMIC CHIP | 0.0047µF | 10% | 50V |
| C651 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C703 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C652 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C704 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C653 | 1-126-964-11 | ELECT | 10µF | 20% | 50V | C705 | 1-162-968-11 | CERAMIC CHIP | 0.0047µF | 10% | 50V |
| C654 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V | C706 | 1-162-963-11 | CERAMIC CHIP | 680pF | 10% | 50V |
| C655 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V | C707 | 1-162-963-11 | CERAMIC CHIP | 680pF | 10% | 50V |
| C656 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V | C708 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C657 | 1-128-934-91 | CERAMIC CHIP | 0.33µF | 20% | 10V | C709 | 1-164-505-11 | CERAMIC CHIP | 2.2µF | | 16V |
| C658 | 1-137-190-91 | FILM | 0.22µF | 5% | 50V | C710 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C659 | 1-137-365-11 | MYLAR | 0.0015µF | 5% | 50V | C711 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C660 | 1-136-159-00 | FILM | 0.033µF | 5% | 50V | C712 | 1-164-230-11 | CERAMIC CHIP | 220pF | 5% | 50V |
| C661 | 1-137-367-11 | MYLAR | 0.0033µF | 5% | 50V | C713 | 1-115-416-11 | CERAMIC CHIP | 0.001µF | 5% | 25V |
| C662 | 1-136-287-11 | FILM | 0.0047µF | 5% | 100V | C716 | 1-126-934-11 | ELECT | 220µF | 20% | 16V |
| C663 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V | C717 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C664 | 1-136-287-11 | FILM | 0.0047µF | 5% | 100V | C718 | 1-115-416-11 | CERAMIC CHIP | 0.001µF | 5% | 25V |
| C665 | 1-136-153-00 | FILM | 0.01µF | 5% | 50V | C719 | 1-164-230-11 | CERAMIC CHIP | 220pF | 5% | 50V |
| C666 | 1-164-227-11 | CERAMIC CHIP | 0.022µF | 10% | 25V | C720 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C667 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C721 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C668 | 1-126-933-11 | ELECT | 100µF | 20% | 16V | C722 | 1-164-505-11 | CERAMIC CHIP | 2.2µF | | 16V |
| C669 | 1-107-704-51 | ELECT | 470µF | 20% | 25V | C723 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C670 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V | C724 | 1-162-920-11 | CERAMIC CHIP | 27pF | 5% | 50V |
| C671 | 1-136-153-00 | FILM | 0.01µF | 5% | 50V | C725 | 1-162-919-11 | CERAMIC CHIP | 22pF | 5% | 50V |
| C672 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V | C726 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C673 | 1-137-190-91 | FILM | 0.22µF | 5% | 50V | C727 | 1-162-918-11 | CERAMIC CHIP | 18pF | 5% | 50V |
| C674 | 1-165-908-11 | CERAMIC CHIP | 1µF | 10% | 10V | C728 | 1-162-918-11 | CERAMIC CHIP | 18pF | 5% | 50V |
| C675 | 1-136-287-11 | FILM | 0.0047µF | 5% | 100V | C729 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C730 | 1-162-919-11 | CERAMIC CHIP | 22pF | 5% | 50V | C875 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C731 | 1-162-910-11 | CERAMIC CHIP | 5pF | 0.25pF | 50V | C876 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C732 | 1-115-156-11 | CERAMIC CHIP | 1µF | | 10V | C877 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C734 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C878 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C735 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C879 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C736 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C880 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C737 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C881 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C738 | 1-126-942-61 | ELECT | 1000µF | 20% | 25V | C882 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C739 | 1-126-933-11 | ELECT | 100µF | 20% | 16V | C883 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C741 | 1-126-933-11 | ELECT | 100µF | 20% | 16V | C884 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C742 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C885 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C743 | 1-126-933-11 | ELECT | 100µF | 20% | 16V | C886 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C744 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C887 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C745 | 1-162-916-11 | CERAMIC CHIP | 12pF | 5% | 50V | C888 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C746 | 1-162-916-11 | CERAMIC CHIP | 12pF | 5% | 50V | C889 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C747 | 1-162-907-11 | CERAMIC CHIP | 2pF | 0.25pF | 50V | C890 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C748 | 1-164-245-11 | CERAMIC CHIP | 0.015µF | 10% | 25V | C891 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C750 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C892 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C751 | 1-115-416-11 | CERAMIC CHIP | 0.001µF | 5% | 25V | C893 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C752 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C894 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C753 | 1-126-933-11 | ELECT | 100µF | 20% | 16V | C895 | 1-162-915-11 | CERAMIC CHIP | 10pF | 0.50pF | 50V |
| C760 | 1-126-925-91 | ELECT | 470µF | 20% | 10V | C896 | 1-162-915-11 | CERAMIC CHIP | 10pF | 0.50pF | 50V |
| C851 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C897 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C852 | 1-164-392-11 | CERAMIC CHIP | 390pF | 5% | 50V | C898 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C853 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C899 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C854 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C900 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C855 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C901 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C856 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V | C902 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C857 | 1-162-965-11 | CERAMIC CHIP | 0.0015µF | 10% | 50V | C903 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C858 | 1-162-965-11 | CERAMIC CHIP | 0.0015µF | 10% | 50V | C904 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C859 | 1-115-416-11 | CERAMIC CHIP | 0.001µF | 5% | 25V | C906 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C860 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C907 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C861 | 1-162-965-11 | CERAMIC CHIP | 0.0015µF | 10% | 50V | C908 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C862 | 1-162-965-11 | CERAMIC CHIP | 0.0015µF | 10% | 50V | C909 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C863 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C910 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C864 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C912 | 1-164-315-11 | CERAMIC CHIP | 470pF | 5% | 50V |
| C865 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C913 | 1-164-315-11 | CERAMIC CHIP | 470pF | 5% | 50V |
| C868 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C914 | 1-164-315-11 | CERAMIC CHIP | 470pF | 5% | 50V |
| C869 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C916 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C870 | 1-126-933-11 | ELECT | 100µF | 20% | 16V | C917 | 1-162-925-11 | CERAMIC CHIP | 68pF | 5% | 50V |
| C871 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C918 | 1-162-925-11 | CERAMIC CHIP | 68pF | 5% | 50V |
| C872 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C919 | 1-162-925-11 | CERAMIC CHIP | 68pF | 5% | 50V |
| C873 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C920 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C874 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V | C921 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |

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| | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|
| | C922 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| | C923 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| | C924 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| | C925 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| | C926 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| | C927 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| | C928 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| | C929 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| | C930 | 1-162-921-11 | CERAMIC CHIP | 33pF | 5% | 50V |
| | C931 | 1-162-921-11 | CERAMIC CHIP | 33pF | 5% | 50V |
| | C932 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| | C933 | 1-162-921-11 | CERAMIC CHIP | 33pF | 5% | 50V |
| | C934 | 1-164-218-11 | CERAMIC CHIP | 180pF | 5% | 50V |
| | C935 | 1-164-218-11 | CERAMIC CHIP | 180pF | 5% | 50V |
| | C936 | 1-164-218-11 | CERAMIC CHIP | 180pF | 5% | 50V |
| | C937 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| | C938 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| | | **CONNECTOR** | | | | |
| * | CN2 | 1-764-334-11 | PIN, CONNECTOR(PCB)(V TYPE) | | | 11P |
| * | CN3 | 1-564-512-11 | PLUG, CONNECTOR | | | 9P |
| | CN5 | 1-573-979-22 | CONNECTOR, BOARD TO BOARD | | | 11P |
| * | CN6 | 1-779-892-11 | CONNECTOR, BOARD TO BOARD | | | 10P |
| * | CN7 | 1-564-507-11 | PLUG, CONNECTOR | | | 4P |
| * | CN8 | 1-779-892-11 | CONNECTOR, BOARD TO BOARD | | | 10P |
| * | CN9 | 1-779-892-11 | CONNECTOR, BOARD TO BOARD | | | 10P |
| * | CN10 | 1-779-892-11 | CONNECTOR, BOARD TO BOARD | | | 10P |
| * | CN11 | 1-793-495-11 | CONNECTOR, BOARD TO BOARD | | | 50P |
| * | CN12 | 1-764-333-11 | PIN, CONNECTOR(PCB)(V TYPE) | | | 10P |
| * | CN13 | 1-764-334-11 | PIN, CONNECTOR(PCB)(V TYPE) | | | 11P |
| * | CN14 | 1-564-507-11 | PLUG, CONNECTOR | | | 4P |
| * | CN15 | 1-564-512-11 | PLUG, CONNECTOR | | | 9P |
| * | CN17 | 1-564-508-11 | PLUG, CONNECTOR | | | 5P |
| * | CN18 | 1-564-509-11 | PLUG, CONNECTOR | | | 6P |
| * | CN19 | 1-564-511-11 | PLUG, CONNECTOR | | | 8P |
| * | CN20 | 1-779-892-11 | CONNECTOR, BOARD TO BOARD | | | 10P |
| | CN24 | 1-695-915-11 | TAB (CONTACT) | | | |
| | CN25 | 1-695-915-11 | TAB (CONTACT) | | | |
| | CN26 | 1-785-900-21 | CONNECTOR | | | 5P |
| * | CN27 | 1-785-125-21 | CONNECTOR | | | 6P |
| | CN28 | 1-785-900-21 | CONNECTOR | | | 5P |
| * | CN29 | 1-785-125-21 | CONNECTOR | | | 6P |

| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| | **DIODE** | | |
| D2 | 8-719-977-28 | DIODE | DTZ10B |
| D3 | 8-719-977-28 | DIODE | DTZ10B |
| D4 | 8-719-977-28 | DIODE | DTZ10B |
| D5 | 8-719-977-28 | DIODE | DTZ10B |
| D6 | 8-719-977-28 | DIODE | DTZ10B |
| D7 | 8-719-977-28 | DIODE | DTZ10B |
| D8 | 8-719-977-28 | DIODE | DTZ10B |
| D9 | 8-719-977-28 | DIODE | DTZ10B |
| D10 | 8-719-977-28 | DIODE | DTZ10B |
| D11 | 8-719-977-28 | DIODE | DTZ10B |
| D12 | 8-719-977-28 | DIODE | DTZ10B |
| D13 | 8-719-977-28 | DIODE | DTZ10B |
| D14 | 8-719-977-28 | DIODE | DTZ10B |
| D15 | 8-719-977-28 | DIODE | DTZ10B |
| D16 | 8-719-977-28 | DIODE | DTZ10B |
| D17 | 8-719-977-28 | DIODE | DTZ10B |
| D18 | 8-719-977-28 | DIODE | DTZ10B |
| D19 | 8-719-977-28 | DIODE | DTZ10B |
| D20 | 8-719-977-28 | DIODE | DTZ10B |
| D21 | 8-719-977-28 | DIODE | DTZ10B |
| D23 | 8-719-977-28 | DIODE | DTZ10B |
| D24 | 8-719-977-28 | DIODE | DTZ10B |
| D25 | 8-719-977-28 | DIODE | DTZ10B |
| D26 | 8-719-977-28 | DIODE | DTZ10B |
| D27 | 8-719-977-28 | DIODE | DTZ10B |
| D28 | 8-719-977-28 | DIODE | DTZ10B |
| D35 | 8-719-066-11 | DIODE | 1PS184-115 |
| D36 | 8-719-977-28 | DIODE | DTZ10B |
| D37 | 8-719-977-28 | DIODE | DTZ10B |
| D38 | 8-719-977-28 | DIODE | DTZ10B |
| D39 | 8-719-977-28 | DIODE | DTZ10B |
| D40 | 8-719-977-28 | DIODE | DTZ10B |
| D41 | 8-719-977-28 | DIODE | DTZ10B |
| D42 | 8-719-977-28 | DIODE | DTZ10B |
| D43 | 8-719-977-28 | DIODE | DTZ10B |
| D44 | 8-719-081-97 | DIODE | MMDL914T1 |
| D45 | 8-719-081-97 | DIODE | MMDL914T1 |
| D304 | 8-719-078-04 | DIODE | EC31QS03L-TE12L |
| D305 | 8-719-078-04 | DIODE | EC31QS03L-TE12L |
| D306 | 8-719-078-04 | DIODE | EC31QS03L-TE12L |
| D307 | 8-719-036-94 | DIODE | RD5.6SB-T1 |
| D308 | 8-719-081-97 | DIODE | MMDL914T1 |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| D309 | 8-719-081-97 | DIODE | MMDL914T1 |
| D310 | 8-719-056-83 | DIODE | UDZ-TE-17-6.8B |
| D311 | 8-719-081-97 | DIODE | MMDL914T1 |
| D312 | 8-719-977-28 | DIODE | DTZ10B |
| D313 | 8-719-028-45 | DIODE | D2L20U |
| D451 | 6-500-654-01 | DIODE | MM3Z3V0T1 |
| D452 | 8-719-081-97 | DIODE | MMDL914T1 |
| D453 | 8-719-081-97 | DIODE | MMDL914T1 |
| D454 | 8-719-081-97 | DIODE | MMDL914T1 |
| D456 | 8-719-036-94 | DIODE | RD5.6SB-T1 |
| D457 | 8-719-081-97 | DIODE | MMDL914T1 |
| D458 | 8-719-977-28 | DIODE | DTZ10B |
| D459 | 8-719-081-97 | DIODE | MMDL914T1 |
| D460 | 8-719-977-28 | DIODE | DTZ10B |
| D470 | 8-719-081-97 | DIODE | MMDL914T1 |
| D471 | 8-719-081-97 | DIODE | MMDL914T1 |
| D501 | 8-719-081-97 | DIODE | MMDL914T1 |
| D602 | 6-500-028-01 | DIODE | MM3Z9V1ST1 |
| D603 | 1-216-295-91 | SHORT CHIP | |
| D701 | 8-719-066-11 | DIODE | 1PS184-115 |
| D703 | 8-719-081-97 | DIODE | MMDL914T1 |
| D706 | 8-719-083-57 | DIODE | UDZSTE-173.6B |
| D707 | 8-719-081-97 | DIODE | MMDL914T1 |
| D708 | 8-719-066-11 | DIODE | 1PS184-115 |
| D709 | 8-719-066-11 | DIODE | 1PS184-115 |
| D711 | 8-719-081-97 | DIODE | MMDL914T1 |
| D712 | 8-719-081-97 | DIODE | MMDL914T1 |
| D720 | 8-719-066-11 | DIODE | 1PS184-115 |
| D721 | 8-719-081-97 | DIODE | MMDL914T1 |
| D851 | 8-719-976-99 | DIODE | DTZ5.1B |
| D852 | 8-719-976-99 | DIODE | DTZ5.1B |
| D853 | 8-719-976-99 | DIODE | DTZ5.1B |
| D854 | 8-719-976-99 | DIODE | DTZ5.1B |
| D855 | 8-719-081-97 | DIODE | MMDL914T1 |
| D856 | 8-719-081-97 | DIODE | MMDL914T1 |
| D857 | 8-719-081-97 | DIODE | MMDL914T1 |
| D858 | 8-719-081-97 | DIODE | MMDL914T1 |

**FERRITE BEAD**

| | | | |
|---|---|---|---|
| FB301 | 1-412-911-11 | FERRITE | 0µH |
| FB302 | 1-412-911-11 | FERRITE | 0µH |
| FB303 | 1-412-911-11 | FERRITE | 0µH |
| FB305 | 1-414-445-11 | FERRITE | 0µH |
| FB306 | 1-414-445-11 | FERRITE | 0µH |
| FB602 | 1-469-578-11 | FERRITE | 1.1µH |
| FB603 | 1-469-578-11 | FERRITE | 1.1µH |
| FB604 | 1-469-578-11 | FERRITE | 1.1µH |
| FB605 | 1-469-578-11 | FERRITE | 1.1µH |
| FB703 | 1-543-949-22 | FERRITE | 0µH |
| FB852 | 1-414-445-11 | FERRITE | 0µH |
| FB853 | 1-414-445-11 | FERRITE | 0µH |
| FB854 | 1-414-445-11 | FERRITE | 0µH |
| FB855 | 1-414-445-11 | FERRITE | 0µH |
| FB856 | 1-414-445-11 | FERRITE | 0µH |
| FB857 | 1-414-445-11 | FERRITE | 0µH |
| FB858 | 1-414-445-11 | FERRITE | 0µH |
| FB859 | 1-414-445-11 | FERRITE | 0µH |
| FB860 | 1-414-445-11 | FERRITE | 0µH |
| FB861 | 1-414-445-11 | FERRITE | 0µH |
| FB862 | 1-414-445-11 | FERRITE | 0µH |
| FB863 | 1-414-445-11 | FERRITE | 0µH |
| FB864 | 1-414-445-11 | FERRITE | 0µH |
| FB865 | 1-414-445-11 | FERRITE | 0µH |
| FB866 | 1-414-445-11 | FERRITE | 0µH |
| FB867 | 1-414-445-11 | FERRITE | 0µH |
| FB868 | 1-414-445-11 | FERRITE | 0µH |
| FB869 | 1-414-445-11 | FERRITE | 0µH |
| FB870 | 1-414-445-11 | FERRITE | 0µH |
| FB871 | 1-414-445-11 | FERRITE | 0µH |
| FB872 | 1-414-445-11 | FERRITE | 0µH |
| FB873 | 1-414-445-11 | FERRITE | 0µH |
| FB874 | 1-414-445-11 | FERRITE | 0µH |
| FB875 | 1-414-445-11 | FERRITE | 0µH |
| FB876 | 1-414-445-11 | FERRITE | 0µH |
| FB877 | 1-414-445-11 | FERRITE | 0µH |
| FB878 | 1-414-445-11 | FERRITE | 0µH |
| FB879 | 1-414-445-11 | FERRITE | 0µH |
| FB880 | 1-414-445-11 | FERRITE | 0µH |
| FB882 | 1-414-445-11 | FERRITE | 0µH |
| FB883 | 1-414-445-11 | FERRITE | 0µH |

**FILTER**

| | | |
|---|---|---|
| FL302 | 1-239-848-21 | FILTER, LOW PASS |
| FL305 | 1-239-848-21 | FILTER, LOW PASS |
| FL306 | 1-239-848-21 | FILTER, LOW PASS |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| | **IC** | | |
| IC1 | 8-753-204-12 | IC | CXA2209Q-T6 |
| IC2 | 8-752-107-98 | IC | CXA2188Q-T4 |
| IC302 | 8-759-659-28 | IC | SI-8033S |
| IC303 | 8-759-474-09 | IC | SI-8050S-LF1101 |
| IC304 | 6-703-656-01 | IC | SI-8090S |
| IC305 | 8-752-394-69 | IC | CXD2073Q-T4 |
| IC306 | 8-752-102-21 | IC | CXA2103AQ |
| IC451 | 6-706-445-01 | IC | NJM2880U1-05-TE1 |
| IC452 | 8-752-102-68 | IC | CXA2170Q |
| IC601 | 6-704-233-01 | IC | TDA7490 |
| IC602 | 8-759-278-58 | IC | NJM4558V-TE2 |
| IC603 | 6-704-236-01 | IC | NJW1148 |
| IC604 | 8-759-569-92 | IC | NJM2370U09-TE2 |
| IC701 | 6-706-444-01 | IC | NJM2880U1-33-TE1 |
| IC702 | 6-706-730-01 | IC | M306V7MG-080FP |
| IC703 | 6-801-375-01 | IC | PST9129NL |
| IC704 | 6-704-573-01 | IC | M24C32-WMN6T(B) |
| IC705 | 6-706-729-01 | IC | M306VSMG-538FP |
| | **(A-1054-149-A** | **A BOARD, COMPLETE ONLY)** | |
| ☛ IC705 | 6-804-751-01 | IC | M306VSMG-539FP |
| | **(A-1082-955-A** | **A BOARD, COMPLETE ONLY)** | |
| IC706 | 8-759-488-29 | IC | TC7W66FU(TE12R) |
| IC707 | 6-704-573-01 | IC | M24C32-WMN6T(B) |
| IC851 | 8-759-830-08 | IC | NJM2068V-TE2 |
| IC852 | 8-759-278-58 | IC | NJM4558V-TE2 |
| IC853 | 8-759-278-58 | IC | NJM4558V-TE2 |
| IC854 | 8-759-641-26 | IC | NJM2391DL1-33(TE1) |
| IC855 | 6-704-266-01 | IC | CM0033AF |
| IC856 | 8-753-224-46 | IC | CXP86460-653Q |
| IC857 | 6-704-067-01 | IC | M24128-BWMN6T(A) |
| IC858 | 8-759-352-91 | IC | PST9143NL |
| IC859 | 8-759-700-65 | IC | NJM79L05A |
| IC860 | 8-759-830-08 | IC | NJM2068V-TE2 |
| IC861 | 8-759-830-08 | IC | NJM2068V-TE2 |
| IC862 | 8-759-830-08 | IC | NJM2068V-TE2 |
| | **JACK** | | |
| J1 | 1-780-168-11 | TERMINAL BLOCK, S | 8P |
| J3 | 1-794-118-11 | JACK BLOCK, PIN | 3P |
| J5 | 1-794-116-11 | JACK BLOCK, PIN | 2P |
| * J6 | 1-818-012-11 | PIN JACK BLOCK | 10P |
| J8 | 1-565-790-21 | JACK, SMALL TYPE | 2P |

| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| | **COIL** | | |
| L1 | 1-469-320-21 | INDUCTOR | 100µH |
| L2 | 1-469-320-21 | INDUCTOR | 100µH |
| L3 | 1-469-317-21 | INDUCTOR | 10µH |
| L6 | 1-400-397-11 | INDUCTOR | 10µH |
| L8 | 1-414-856-11 | INDUCTOR | 10µH |
| L9 | 1-414-856-11 | INDUCTOR | 10µH |
| L10 | 1-414-856-11 | INDUCTOR | 10µH |
| L11 | 1-414-856-11 | INDUCTOR | 10µH |
| L12 | 1-400-397-11 | INDUCTOR | 10µH |
| L13 | 1-400-397-11 | INDUCTOR | 10µH |
| L14 | 1-400-397-11 | INDUCTOR | 10µH |
| L15 | 1-400-397-11 | INDUCTOR | 10µH |
| L16 | 1-400-397-11 | INDUCTOR | 10µH |
| L302 | 1-400-397-11 | INDUCTOR | 10µH |
| L306 | 1-412-537-31 | INDUCTOR | 100µH |
| L307 | 1-412-525-31 | INDUCTOR | 10µH |
| L308 | 1-412-525-31 | INDUCTOR | 10µH |
| L310 | 1-456-414-11 | COIL, CHOPPER | |
| L311 | 1-456-414-11 | COIL, CHOPPER | |
| L312 | 1-456-414-11 | COIL, CHOPPER | |
| L313 | 1-412-525-31 | INDUCTOR | 10µH |
| L314 | 1-412-525-31 | INDUCTOR | 10µH |
| L315 | 1-412-525-31 | INDUCTOR | 10µH |
| L316 | 1-400-397-11 | INDUCTOR | 10µH |
| L317 | 1-400-397-11 | INDUCTOR | 10µH |
| L320 | 1-400-397-11 | INDUCTOR | 10µH |
| L323 | 1-400-397-11 | INDUCTOR | 10µH |
| L451 | 1-400-397-11 | INDUCTOR | 10µH |
| L452 | 1-400-397-11 | INDUCTOR | 10µH |
| L453 | 1-400-397-11 | INDUCTOR | 10µH |
| L454 | 1-469-559-21 | INDUCTOR | 47µH |
| L455 | 1-400-397-11 | INDUCTOR | 10µH |
| L456 | 1-400-397-11 | INDUCTOR | 10µH |
| L457 | 1-400-397-11 | INDUCTOR | 10µH |
| L458 | 1-400-397-11 | INDUCTOR | 10µH |
| L601 | 1-456-621-11 | INDUCTOR | 35µH |
| L602 | 1-456-620-11 | INDUCTOR | 25µH |
| L603 | 1-456-620-11 | INDUCTOR | 25µH |
| L604 | 1-456-621-11 | INDUCTOR | 35µH |
| L701 | 1-400-397-11 | INDUCTOR | 10µH |
| L702 | 1-400-397-11 | INDUCTOR | 10µH |
| L703 | 1-412-943-11 | INDUCTOR | 2.2µH |

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

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| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| L704 | 1-400-397-11 | INDUCTOR | 10µH |
| L705 | 1-400-397-11 | INDUCTOR | 10µH |
| L851 | 1-469-552-21 | INDUCTOR | 3.3µH |
| | **IC LINK** | | |
| PS1 | 1-532-679-00 | IC LINK | 0.6A 50V |
| ⚠ PS600 | 1-576-390-91 | IC LINK | 2.5A 50V |
| ⚠ PS601 | 1-576-390-91 | IC LINK | 2.5A 50V |
| | **TRANSISTOR** | | |
| Q1 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q2 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q3 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q4 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q5 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q6 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q7 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q9 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q10 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q12 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q13 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q14 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q16 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q20 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q21 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q23 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q24 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 |
| Q25 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 |
| Q26 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 |
| Q27 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q28 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q29 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q30 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q31 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q32 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q33 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q34 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q35 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q36 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q304 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q306 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q308 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q311 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q312 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q313 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q322 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q323 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q324 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q325 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q451 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q452 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q453 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q454 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q455 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q456 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q457 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q458 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q459 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q460 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q461 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 |
| Q462 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q463 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q464 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q465 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q466 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q467 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q468 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q469 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q470 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q471 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q472 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q473 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 |
| Q474 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 |
| Q476 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 |
| Q477 | 8-729-028-97 | TRANSISTOR | DTC114TUA-T106 |
| Q478 | 8-729-028-97 | TRANSISTOR | DTC114TUA-T106 |
| Q479 | 8-729-028-97 | TRANSISTOR | DTC114TUA-T106 |
| Q601 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q603 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q604 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q605 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q701 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q702 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q703 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q705 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q706 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| Q707 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q709 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q710 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q711 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q712 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q714 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q717 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q718 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q719 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q721 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q722 | 8-729-029-14 | TRANSISTOR | DTC144EUA-T106 |
| Q723 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q730 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q851 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q852 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q853 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q854 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q855 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q856 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q857 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 |
| Q858 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q859 | 8-729-028-28 | TRANSISTOR | 2SK2036(TE85L) |
| Q860 | 8-729-028-28 | TRANSISTOR | 2SK2036(TE85L) |

**RESISTOR**

| | | | | | |
|---|---|---|---|---|---|
| R1 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R2 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R4 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R6 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R7 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R8 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R9 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R10 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R11 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R12 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R13 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R14 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R15 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R16 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R17 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R18 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R19 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R20 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R21 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R22 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R23 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R24 | 1-216-847-11 | METAL CHIP | 150K | 5% | 1/10W |
| R25 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R26 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R27 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R28 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R30 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R31 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R32 | 1-216-864-11 | SHORT CHIP | | | |
| R33 | 1-216-864-11 | SHORT CHIP | | | |
| R34 | 1-216-864-11 | SHORT CHIP | | | |
| R36 | 1-216-864-11 | SHORT CHIP | | | |
| R37 | 1-216-864-11 | SHORT CHIP | | | |
| R39 | 1-216-864-11 | SHORT CHIP | | | |
| R40 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R41 | 1-216-864-11 | SHORT CHIP | | | |
| R42 | 1-216-864-11 | SHORT CHIP | | | |
| R48 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R50 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R52 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R54 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R57 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R58 | 1-216-824-11 | METAL CHIP | 1.8K | 5% | 1/10W |
| R60 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R62 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R65 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R66 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R67 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R68 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R69 | 1-216-824-11 | METAL CHIP | 1.8K | 5% | 1/10W |
| R70 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R72 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R73 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R74 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R75 | 1-216-847-11 | METAL CHIP | 150K | 5% | 1/10W |
| R77 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R78 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/10W |
| R79 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R80 | 1-216-864-11 | SHORT CHIP | | | |
| R81 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R82 | 1-216-864-11 | SHORT CHIP | | | |
| R83 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R84 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R85 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R89 | 1-216-864-11 | SHORT CHIP | | | |
| R90 | 1-216-864-11 | SHORT CHIP | | | |
| R91 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R93 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R94 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R95 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R97 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R98 | 1-216-864-11 | SHORT CHIP | | | |
| R99 | 1-216-864-11 | SHORT CHIP | | | |
| R100 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R101 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R102 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R103 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R106 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R107 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R108 | 1-216-843-11 | METAL CHIP | 68K | 5% | 1/10W |
| R109 | 1-216-806-11 | METAL CHIP | 56 | 5% | 1/10W |
| R110 | 1-216-806-11 | METAL CHIP | 56 | 5% | 1/10W |
| R111 | 1-216-806-11 | METAL CHIP | 56 | 5% | 1/10W |
| R112 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R113 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R114 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R115 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R116 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R118 | 1-216-843-11 | METAL CHIP | 68K | 5% | 1/10W |
| R119 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R120 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R121 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R122 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R125 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R126 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R128 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R129 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R131 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R132 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R133 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R135 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R136 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R137 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R138 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R139 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R140 | 1-216-864-11 | SHORT CHIP | | | |
| R142 | 1-216-864-11 | SHORT CHIP | | | |
| R143 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R144 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R145 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R146 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R147 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R148 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R149 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R150 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R151 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R152 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R153 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R154 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R155 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R156 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R157 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R158 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R159 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R160 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R161 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R162 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R163 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R164 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R165 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R166 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R167 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R168 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R169 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R170 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R171 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R172 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R173 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R174 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R175 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R176 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R177 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R180 | 1-216-861-11 | METAL CHIP | 2.2M | 5% | 1/10W |
| R181 | 1-216-861-11 | METAL CHIP | 2.2M | 5% | 1/10W |
| R182 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R183 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R184 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R185 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| R186 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | R248 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R187 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | R307 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R188 | 1-216-864-11 | SHORT CHIP | | | | R308 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R189 | 1-216-864-11 | SHORT CHIP | | | | R311 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R192 | 1-216-864-11 | SHORT CHIP | | | | R312 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R193 | 1-216-864-11 | SHORT CHIP | | | | R314 | 1-218-841-11 | METAL CHIP | 560 | 0.50% | 1/10W |
| R194 | 1-216-864-11 | SHORT CHIP | | | | R316 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R197 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W | R320 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R198 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | R321 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R199 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W | R322 | 1-218-864-11 | METAL CHIP | 5.1K | 0.50% | 1/10W |
| R200 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | R323 | 1-218-841-11 | METAL CHIP | 560 | 0.50% | 1/10W |
| R201 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | R324 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R203 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R325 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R204 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W | R328 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W |
| R205 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W | R330 | 1-218-841-11 | METAL CHIP | 560 | 0.50% | 1/10W |
| R206 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | R331 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R207 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | R332 | 1-218-889-11 | METAL CHIP | 56K | 0.50% | 1/10W |
| R208 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R335 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R209 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | R336 | 1-211-981-11 | METAL CHIP | 33 | 0.50% | 1/10W |
| R210 | 1-216-864-11 | SHORT CHIP | | | | R337 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R215 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R338 | 1-211-969-11 | METAL CHIP | 10 | 0.50% | 1/10W |
| R216 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W | R339 | 1-218-859-11 | METAL CHIP | 3.3K | 0.50% | 1/10W |
| R217 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W | R340 | 1-211-977-11 | METAL CHIP | 22 | 0.50% | 1/10W |
| R218 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W | R343 | 1-218-859-11 | METAL CHIP | 3.3K | 0.50% | 1/10W |
| R219 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R346 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| R220 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R347 | 1-218-859-11 | METAL CHIP | 3.3K | 0.50% | 1/10W |
| R222 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W | R348 | 1-216-864-11 | SHORT CHIP | | | |
| R223 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W | R361 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R225 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W | R365 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W |
| R226 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W | R366 | 1-216-812-11 | METAL CHIP | 180 | 5% | 1/10W |
| R227 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W | R367 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R228 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W | R368 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R229 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W | R369 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R230 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W | R370 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R231 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W | R371 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R232 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W | R372 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R235 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W | R373 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R236 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W | R374 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R237 | 1-216-811-11 | METAL CHIP | 150 | 5% | 1/10W | R375 | 1-218-841-11 | METAL CHIP | 560 | 0.50% | 1/10W |
| R242 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R376 | 1-218-841-11 | METAL CHIP | 560 | 0.50% | 1/10W |
| R243 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R377 | 1-218-865-11 | METAL CHIP | 5.6K | 0.50% | 1/10W |
| R244 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R378 | 1-218-865-11 | METAL CHIP | 5.6K | 0.50% | 1/10W |
| R245 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R379 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R247 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | R380 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| R385 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W | R491 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R389 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R492 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R390 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R493 | 1-216-834-11 | METAL CHIP | 12K | 5% | 1/10W |
| R393 | 1-216-828-11 | METAL CHIP | 3.9K | 5% | 1/10W | R494 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R396 | 1-216-864-11 | SHORT CHIP | | | | R495 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R397 | 1-216-864-11 | SHORT CHIP | | | | R496 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R398 | 1-216-864-11 | SHORT CHIP | | | | R497 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R399 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R498 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R400 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R499 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R451 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R500 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/10W |
| R452 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R501 | 1-216-863-11 | METAL CHIP | 3.3M | 5% | 1/10W |
| R453 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R502 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R454 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R503 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R455 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R504 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R457 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R505 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R459 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R506 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R460 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R510 | 1-216-815-11 | METAL CHIP | 330 | 5% | 1/10W |
| R461 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W | R511 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R462 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W | R512 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R463 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W | R513 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R464 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | R514 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R465 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | R515 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R466 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W | R516 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R467 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R517 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R468 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W | R518 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R469 | 1-216-832-11 | METAL CHIP | 8.2K | 5% | 1/10W | R519 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R470 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R520 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R471 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R521 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R472 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W | R522 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R473 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R523 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R474 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R524 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R475 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R525 | 1-216-815-11 | METAL CHIP | 330 | 5% | 1/10W |
| R476 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W | R527 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R478 | 1-216-864-11 | SHORT CHIP | | | | R528 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R479 | 1-216-864-11 | SHORT CHIP | | | | R529 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R480 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W | R531 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R481 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R532 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R482 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R533 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R483 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R535 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R484 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R536 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R485 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R537 | 1-218-875-11 | METAL CHIP | 15K | 0.50% | 1/10W |
| R486 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R538 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R488 | 1-216-826-11 | METAL CHIP | 2.7K | 5% | 1/10W | R540 | 1-216-864-11 | SHORT CHIP | | | |
| R489 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R541 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R543 | 1-216-864-11 | SHORT CHIP | | | |
| R544 | 1-216-815-11 | METAL CHIP | 330 | 5% | 1/10W |
| R545 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R546 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R547 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R548 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R549 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R550 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R551 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R552 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R553 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R554 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R555 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R556 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R557 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R558 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R559 | 1-216-864-11 | SHORT CHIP | | | |
| R560 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R562 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R564 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |
| R565 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |
| R566 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |
| R567 | 1-216-804-11 | METAL CHIP | 39 | 5% | 1/10W |
| R568 | 1-216-804-11 | METAL CHIP | 39 | 5% | 1/10W |
| R569 | 1-216-804-11 | METAL CHIP | 39 | 5% | 1/10W |
| R581 | 1-216-864-11 | SHORT CHIP | | | |
| R582 | 1-216-864-11 | SHORT CHIP | | | |
| R601 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R602 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R603 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R604 | 1-216-855-11 | METAL CHIP | 680K | 5% | 1/10W |
| R605 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W |
| R607 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R608 | 1-216-864-11 | SHORT CHIP | | | |
| R611 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R614 | 1-216-840-11 | METAL CHIP | 39K | 5% | 1/10W |
| R615 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R616 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R619 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R620 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R621 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R622 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R623 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R624 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R625 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R628 | 1-216-843-11 | METAL CHIP | 68K | 5% | 1/10W |
| R629 | 1-218-879-11 | METAL CHIP | 22K | 0.50% | 1/10W |
| R631 | 1-216-864-11 | SHORT CHIP | | | |
| R633 | 1-218-879-11 | METAL CHIP | 22K | 0.50% | 1/10W |
| R634 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R636 | 1-216-843-11 | METAL CHIP | 68K | 5% | 1/10W |
| R637 | 1-216-846-11 | METAL CHIP | 120K | 5% | 1/10W |
| R638 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R639 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R641 | 1-216-864-11 | SHORT CHIP | | | |
| R642 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R643 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R644 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R645 | 1-216-840-11 | METAL CHIP | 39K | 5% | 1/10W |
| R646 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R649 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R652 | 1-216-795-11 | METAL CHIP | 6.8 | 5% | 1/10W |
| R653 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/10W |
| R654 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R655 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R656 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/10W |
| R657 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R658 | 1-218-870-11 | METAL CHIP | 9.1K | 0.50% | 1/10W |
| R659 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R660 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R661 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W |
| R662 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R663 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R664 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R665 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R666 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R667 | 1-215-880-00 | METAL OXIDE | 10 | 5% | 2W |
| R668 | 1-215-880-00 | METAL OXIDE | 10 | 5% | 2W |
| R701 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R702 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R703 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R704 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R705 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R706 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R707 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R708 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R709 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R710 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| R711 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | R758 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R712 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | R759 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R713 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R760 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R714 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R761 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R715 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R762 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R716 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R763 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R717 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R764 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R718 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R765 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R719 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R766 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R720 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R767 | 1-216-864-11 | SHORT CHIP | | | |
| R721 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R768 | 1-216-816-11 | METAL CHIP | 390 | 5% | 1/10W |
| R722 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R769 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R723 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R770 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R724 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R771 | 1-216-864-11 | SHORT CHIP | | | |
| R725 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | R772 | 1-216-816-11 | METAL CHIP | 390 | 5% | 1/10W |
| R726 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | R774 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R727 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R775 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R728 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R776 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R729 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | R777 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R730 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R778 | 1-216-864-11 | SHORT CHIP | | | |
| R731 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R779 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R732 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R780 | 1-216-816-11 | METAL CHIP | 390 | 5% | 1/10W |
| R733 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W | R781 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| R734 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R782 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R735 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R783 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R736 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W | R784 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R737 | 1-216-816-11 | METAL CHIP | 390 | 5% | 1/10W | R785 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R738 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R786 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R740 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R788 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R741 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R789 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R742 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R790 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R743 | 1-216-820-11 | METAL CHIP | 820 | 5% | 1/10W | R792 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R744 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R793 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R745 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R797 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R746 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R798 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R747 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R799 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R748 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R800 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R749 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R801 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R750 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R803 | 1-216-864-11 | SHORT CHIP | | | |
| R751 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R804 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R752 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R807 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R755 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R809 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R756 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R810 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R757 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R811 | 1-211-990-11 | METAL CHIP | 75 | 0.50% | 1/10W |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| R812 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R872 | 1-218-877-11 | METAL CHIP | 18K | 0.50% | 1/10W |
| R814 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R873 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R815 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R874 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R816 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R875 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R817 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R876 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R818 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R877 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R819 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W | R878 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R820 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R879 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R821 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | R880 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R822 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R881 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R823 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R882 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/10W |
| R824 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R883 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/10W |
| R829 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R884 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R831 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R885 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R832 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | R886 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R833 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | R887 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R834 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R888 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R835 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R889 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R836 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W | R890 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R837 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R891 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R838 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W | R892 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R839 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R893 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R840 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W | R894 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R851 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W | R895 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R852 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W | R896 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R853 | 1-218-706-11 | METAL CHIP | 3.9K | 0.50% | 1/10W | R897 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R854 | 1-218-858-11 | METAL CHIP | 3K | 0.50% | 1/10W | R898 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R855 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W | R899 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| R856 | 1-218-887-11 | METAL CHIP | 47K | 0.50% | 1/10W | R900 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R857 | 1-218-887-11 | METAL CHIP | 47K | 0.50% | 1/10W | R901 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R858 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W | R902 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R859 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W | R903 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R860 | 1-218-887-11 | METAL CHIP | 47K | 0.50% | 1/10W | R904 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R861 | 1-218-841-11 | METAL CHIP | 560 | 0.50% | 1/10W | R905 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R862 | 1-218-887-11 | METAL CHIP | 47K | 0.50% | 1/10W | R906 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R863 | 1-218-859-11 | METAL CHIP | 3.3K | 0.50% | 1/10W | R907 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R864 | 1-218-875-11 | METAL CHIP | 15K | 0.50% | 1/10W | R908 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R865 | 1-218-887-11 | METAL CHIP | 47K | 0.50% | 1/10W | R909 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R866 | 1-218-887-11 | METAL CHIP | 47K | 0.50% | 1/10W | R910 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R867 | 1-218-861-11 | METAL CHIP | 3.9K | 0.50% | 1/10W | R911 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R868 | 1-218-887-11 | METAL CHIP | 47K | 0.50% | 1/10W | R912 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R869 | 1-218-841-11 | METAL CHIP | 560 | 0.50% | 1/10W | R913 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R870 | 1-218-887-11 | METAL CHIP | 47K | 0.50% | 1/10W | R914 | 1-216-820-11 | METAL CHIP | 820 | 5% | 1/10W |
| R871 | 1-218-895-11 | METAL CHIP | 100K | 0.50% | 1/10W | R915 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R916 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R917 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R918 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R919 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R920 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R921 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R922 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R923 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R924 | 1-218-877-11 | METAL CHIP | 18K | 0.50% | 1/10W |
| R925 | 1-218-877-11 | METAL CHIP | 18K | 0.50% | 1/10W |
| R926 | 1-218-877-11 | METAL CHIP | 18K | 0.50% | 1/10W |
| R927 | 1-218-860-11 | METAL CHIP | 3.6K | 0.50% | 1/10W |
| R928 | 1-218-877-11 | METAL CHIP | 18K | 0.50% | 1/10W |
| R929 | 1-218-860-11 | METAL CHIP | 3.6K | 0.50% | 1/10W |
| R930 | 1-218-877-11 | METAL CHIP | 18K | 0.50% | 1/10W |
| R931 | 1-218-860-11 | METAL CHIP | 3.6K | 0.50% | 1/10W |
| R932 | 1-218-877-11 | METAL CHIP | 18K | 0.50% | 1/10W |
| R933 | 1-243-692-71 | METAL OXIDE | 220 | 5% | 1W |
| R934 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R935 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R936 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R937 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R938 | 1-218-882-11 | METAL CHIP | 30K | 0.50% | 1/10W |
| R939 | 1-218-883-11 | METAL CHIP | 33K | 0.50% | 1/10W |
| R940 | 1-218-886-11 | METAL CHIP | 43K | 0.50% | 1/10W |
| R941 | 1-218-868-11 | METAL CHIP | 7.5K | 0.50% | 1/10W |
| R942 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R943 | 1-218-868-11 | METAL CHIP | 7.5K | 0.50% | 1/10W |
| R944 | 1-218-868-11 | METAL CHIP | 7.5K | 0.50% | 1/10W |
| R945 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R946 | 1-218-883-11 | METAL CHIP | 33K | 0.50% | 1/10W |
| R947 | 1-218-883-11 | METAL CHIP | 33K | 0.50% | 1/10W |
| R948 | 1-218-883-11 | METAL CHIP | 33K | 0.50% | 1/10W |
| R949 | 1-218-873-11 | METAL CHIP | 12K | 0.50% | 1/10W |
| R950 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R951 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R952 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R955 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R956 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R957 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R958 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R959 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R960 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/10W |
| R961 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/10W |

| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| | | **RESISTOR BRIDGE** | |
| ⚠ RB1 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| | | **TUNER** | |
| ⚠ TU1 | 8-598-593-60 | TUNER, FSS BTF-WA421 | |
| TU2 | 8-598-594-10 | TUNER, FSS BTF-FA421 | |
| | | **VARISTOR** | |
| VD461 | 1-804-499-21 | VARISTOR, CHIP | (1608) |
| VD851 | 1-804-499-21 | VARISTOR, CHIP | (1608) |
| VD852 | 1-804-499-21 | VARISTOR, CHIP | (1608) |
| VD853 | 1-804-499-21 | VARISTOR, CHIP | (1608) |
| VD854 | 1-804-499-21 | VARISTOR, CHIP | (1608) |
| | | **CRYSTAL** | |
| X1 | 1-781-282-11 | VIBRATOR, CERAMIC | |
| X301 | 1-781-131-31 | VIBRATOR, CRYSTAL | |
| X451 | 1-760-895-21 | VIBRATOR, CERAMIC | |
| X701 | 1-767-686-21 | VIBRATOR, CRYSTAL | |
| X702 | 1-781-589-21 | VIBRATOR, CRYSTAL | |
| X851 | 1-795-954-21 | PIEZOELECTRIC OSCILLATOR | |

D

| | | |
|---|---|---|
| *⚠ | A-1054-155-A | D BOARD, COMPLETE |
| | 4-382-854-01 | SCREW (M3X8), P, SW (+) |
| | 7-682-952-09 | SCREW +PSW 3X16 |

The high-voltage leads associated with the FBT on the D board are not included and must be ordered separately. Order the following leads when requesting this D Board:

| | | |
|---|---|---|
| ⚠ | 1-779-095-51 | LEAD ASSY, HIGH-VOLTAGE |
| ⚠ | 1-900-260-40 | CONNECTOR ASSY, MV |

| | | | | | |
|---|---|---|---|---|---|
| | | **CAPACITOR** | | | |
| C5002 | 1-165-602-91 | CERAMIC | 220pF | 10 | 2KV |
| C5005 | 1-106-383-00 | MYLAR | 0.047µF | 5% | 200V |
| C5006 | 1-165-602-91 | CERAMIC | 220pF | 10 | 2KV |
| C5008 | 1-104-332-11 | CERAMIC | 470pF | 10% | 2KV |
| C5009 | 1-104-987-11 | MYLAR | 0.001µF | 5% | 200V |
| C5010 | 1-104-987-11 | MYLAR | 0.001µF | 5% | 200V |
| C5016 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

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| | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|
| | C5017 | 1-104-987-11 | MYLAR | 0.001µF | 5% | 200V |
| | C5019 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| | C5021 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| ⚠ | C5022 | 1-117-640-11 | FILM | 6800pF | 3% | 1.2KV |
| | C5103 | 1-126-934-11 | ELECT | 220µF | 20% | 16V |
| | C5104 | 1-126-941-11 | ELECT | 470µF | 20% | 25V |
| | C5105 | 1-164-227-11 | CERAMIC CHIP | 0.022µF | 10% | 25V |
| | C5106 | 1-164-227-11 | CERAMIC CHIP | 0.022µF | 10% | 25V |
| | C5107 | 1-130-783-71 | MYLAR | 0.33µF | 10% | 100V |
| | C5108 | 1-126-968-11 | ELECT | 100µF | 20% | 50V |
| | C5109 | 1-126-941-11 | ELECT | 470µF | 20% | 25V |
| | C5110 | 1-104-987-11 | MYLAR | 0.001µF | 5% | 200V |
| | C5111 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| | C5121 | 1-126-960-11 | ELECT | 1µF | 20% | 50V |
| | C5201 | 1-137-150-51 | FILM | 0.01µF | 5% | 100V |
| | C5202 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| | C5203 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| | C5204 | 1-107-648-91 | ELECT | 100µF | 20% | 200V |
| | C5205 | 1-115-416-11 | CERAMIC CHIP | 0.001µF | 5% | 25V |
| | C5206 | 1-106-383-00 | MYLAR | 0.047µF | 5% | 200V |
| | C5207 | 1-104-665-11 | ELECT | 100µF | 20% | 25V |
| | C5208 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| | C5209 | 1-162-924-11 | CERAMIC CHIP | 56pF | 5% | 50V |
| | C5210 | 1-162-968-11 | CERAMIC CHIP | 0.0047µF | 10% | 50V |
| | C5211 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| | C5212 | 1-126-965-91 | ELECT | 22µF | 20% | 50V |
| | C5213 | 1-126-965-91 | ELECT | 22µF | 20% | 50V |
| | C5223 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| | C5228 | 1-100-613-81 | CERAMIC | 470pF | 5% | 1KV |
| | C5410 | 1-104-987-11 | MYLAR | 0.001µF | 5% | 200V |
| | C5418 | 1-117-813-11 | FILM | 0.75µF | 5% | 250V |
| | C5419 | 1-107-649-11 | ELECT | 2.2µF | 20% | 250V |
| | C5552 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| | C5553 | 1-107-698-11 | ELECT | 10µF | 20% | 25V |
| | C5555 | 1-109-879-11 | CERAMIC | 22pF | 5% | 2KV |
| | C5556 | 1-109-879-11 | CERAMIC | 22pF | 5% | 2KV |
| | C5557 | 1-117-214-11 | CERAMIC | 0.001µF | 10% | 2KV |
| | C5703 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| | C6400 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| | C6401 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| | C6402 | 1-126-963-11 | ELECT | 4.7µF | 20% | 50V |
| | C6403 | 1-126-968-11 | ELECT | 100µF | 20% | 50V |
| | C6405 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| | C6406 | 1-136-479-11 | FILM | 0.001µF | 5% | 100V |

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| C6407 | 1-136-497-81 | FILM | 0.1µF | 5% | 50V |
| C6409 | 1-126-947-11 | ELECT | 47µF | 20% | 35V |
| C6411 | 1-100-613-81 | CERAMIC | 470pF | 5% | 1KV |
| C6412 | 1-100-613-81 | CERAMIC | 470pF | 5% | 1KV |
| C6413 | 1-165-954-11 | FILM | 56000pF | 3% | 800V |
| C6414 | 1-117-228-71 | MYLAR | 2.2µF | 10% | 450V |
| C6415 | 1-126-968-11 | ELECT | 100µF | 20% | 50V |
| C6416 | 1-126-948-11 | ELECT | 100µF | 20% | 35V |
| C6418 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C6419 | 1-126-941-11 | ELECT | 470µF | 20% | 25V |
| C6420 | 1-126-941-11 | ELECT | 470µF | 20% | 25V |
| C6500 | 1-126-952-11 | ELECT | 1000µF | 20% | 35V |
| C6501 | 1-126-952-11 | ELECT | 1000µF | 20% | 35V |
| C6503 | 1-131-970-11 | ELECT | 1500µF | 20% | 25V |
| C6504 | 1-131-970-11 | ELECT | 1500µF | 20% | 25V |
| C6505 | 1-131-970-11 | ELECT | 1500µF | 20% | 25V |
| C6506 | 1-126-941-11 | ELECT | 470µF | 20% | 25V |
| C6509 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| C6512 | 1-165-441-81 | ELECT | 33µF | 20% | 160V |
| C6514 | 1-107-662-11 | ELECT | 22µF | 20% | 350V |
| C6515 | 1-165-733-31 | ELECT | 100µF | 20% | 25V |
| C6517 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C6519 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C6601 | 1-104-666-11 | ELECT | 220µF | 20% | 25V |
| C6602 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C6603 | 1-162-969-11 | CERAMIC CHIP | 0.0068µF | 10% | 25V |
| C6604 | 1-126-935-11 | ELECT | 470µF | 20% | 16V |
| C6615 | 1-115-349-51 | CERAMIC | 0.01µF | | 2KV |
| C6700 | 1-164-227-11 | CERAMIC CHIP | 0.022µF | 10% | 25V |
| C6707 | 1-104-987-11 | MYLAR | 0.001µF | 5% | 200V |
| C6803 | 1-126-235-11 | ELECT | 100µF | 20% | 16V |
| C6804 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| C8001 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| C8002 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| C8003 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C8006 | 1-126-960-11 | ELECT | 1µF | 20% | 50V |
| C8007 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| C8008 | 1-163-021-91 | CERAMIC CHIP | 0.01µF | 10% | 50V |
| C8012 | 1-126-947-11 | ELECT | 47µF | 20% | 35V |
| C8015 | 1-126-947-11 | ELECT | 47µF | 20% | 35V |
| C8016 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C8017 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| C8018 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| C8020 | 1-136-497-81 | FILM | 0.1µF | 5% | 50V |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| C8021 | 1-162-968-11 | CERAMIC CHIP | 0.0047µF | 10% | 50V |
| C8022 | 1-100-385-91 | CERAMIC CHIP | 0.47µF | | 25V |
| C8024 | 1-126-947-11 | ELECT | 47µF | 20% | 35V |
| C8025 | 1-126-947-11 | ELECT | 47µF | 20% | 35V |
| C8027 | 1-136-497-81 | FILM | 0.1µF | 5% | 50V |
| C8028 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C8030 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C8031 | 1-126-933-11 | ELECT | 100µF | 20% | 16V |
| C8032 | 1-117-160-51 | FILM | 680pF | 2.00% | 100V |
| C8033 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| C8035 | 1-100-614-81 | CERAMIC | 330pF | 5% | 1KV |
| C8036 | 1-100-614-81 | CERAMIC | 330pF | 5% | 1KV |
| C8037 | 1-165-954-11 | FILM | 56000pF | 3% | 800V |
| C8038 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C8040 | 1-104-666-11 | ELECT | 220µF | 20% | 25V |
| C8041 | 1-136-497-81 | FILM | 0.1µF | 5% | 50V |
| C8042 | 1-136-189-00 | MYLAR | 0.1µF | 10% | 250V |
| C8045 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| C8046 | 1-162-968-11 | CERAMIC CHIP | 0.0047µF | 10% | 50V |
| C8048 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C8063 | 1-135-945-22 | FILM | 10000pF | 3% | 800V |
| C8065 | 1-127-715-91 | CERAMIC CHIP | 0.22µF | 10% | 16V |
| C8070 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| C8073 | 1-164-315-11 | CERAMIC CHIP | 470pF | 5% | 50V |
| C8074 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C8075 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C8076 | 1-126-963-11 | ELECT | 4.7µF | 20% | 50V |
| C8077 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C8078 | 1-126-964-11 | ELECT | 10µF | 20% | 50V |
| C8139 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C9401 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C9402 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C9403 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C9404 | 1-126-968-11 | ELECT | 100µF | 20% | 50V |
| C9405 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C9406 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C9407 | 1-126-968-11 | ELECT | 100µF | 20% | 50V |
| C9408 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C9409 | 1-126-968-11 | ELECT | 100µF | 20% | 50V |
| C9410 | 1-126-968-11 | ELECT | 100µF | 20% | 50V |
| C9411 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C9413 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C9415 | 1-165-740-21 | ELECT | 150µF | 20% | 35V |
| C9416 | 1-165-740-21 | ELECT | 150µF | 20% | 35V |
| C9417 | 1-165-740-21 | ELECT | 150µF | 20% | 35V |
| C9418 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C9419 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C9420 | 1-165-740-21 | ELECT | 150µF | 20% | 35V |
| C9423 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C9425 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |

**CONNECTOR**

| | | | | |
|---|---|---|---|---|
| * | CN5003 | 1-564-509-11 | PLUG, CONNECTOR | 6P |
| * | CN5004 | 1-779-890-11 | CONNECTOR, BOARD TO BOARD | 10P |
| * | CN5005 | 1-779-890-11 | CONNECTOR, BOARD TO BOARD | 10P |
| * | CN5006 | 1-779-890-11 | CONNECTOR, BOARD TO BOARD | 10P |
| * | CN5009 | 1-580-689-11 | PIN, CONNECTOR (PC BOARD) | 4P |
| * | CN5010 | 1-580-689-11 | PIN, CONNECTOR (PC BOARD) | 4P |
| * | CN5011 | 1-580-689-11 | PIN, CONNECTOR (PC BOARD) | 4P |
| * | CN5013 | 1-564-506-11 | PLUG, CONNECTOR | 3P |
| * | CN5014 | 1-564-506-11 | PLUG, CONNECTOR | 3P |
| * | CN5015 | 1-564-506-11 | PLUG, CONNECTOR | 3P |
| * | CN5016 | 1-779-890-11 | CONNECTOR, BOARD TO BOARD | 10P |
| * | CN5017 | 1-779-890-11 | CONNECTOR, BOARD TO BOARD | 10P |
| * | CN5019 | 1-564-506-11 | PLUG, CONNECTOR | 3P |
| | CN5500 | 1-764-101-11 | PIN, CONNECTOR (PC BOARD) | 2P |
| * | CN6400 | 1-580-843-11 | PIN, CONNECTOR (POWER) | |
| * | CN9405 | 1-564-507-11 | PLUG, CONNECTOR | 4P |
| * | CN9406 | 1-564-507-11 | PLUG, CONNECTOR | 4P |
| * | CN9407 | 1-564-507-11 | PLUG, CONNECTOR | 4P |

**DIODE**

| | | | |
|---|---|---|---|
| D5003 | 8-719-081-97 | DIODE | MMDL914T1 |
| D5005 | 8-719-081-97 | DIODE | MMDL914T1 |
| D5101 | 8-719-036-94 | DIODE | RD5.6SB-T1 |
| D5102 | 8-719-908-03 | DIODE | GP08D |
| D5201 | 8-719-110-39 | DIODE | RD15ESB1 |
| D5202 | 8-719-028-45 | DIODE | D2L20U |
| D5203 | 8-719-081-97 | DIODE | MMDL914T1 |
| D5204 | 8-719-081-97 | DIODE | MMDL914T1 |
| D5205 | 8-719-081-97 | DIODE | MMDL914T1 |
| D5206 | 8-719-081-97 | DIODE | MMDL914T1 |
| D5207 | 8-719-081-97 | DIODE | MMDL914T1 |
| D5208 | 8-719-081-97 | DIODE | MMDL914T1 |
| D5209 | 8-719-066-11 | DIODE | 1PS184-115 |
| D5701 | 8-719-070-57 | DIODE | PDZ5.6B-115 |
| D6401 | 8-719-083-78 | DIODE | 10ERA60-TP |

D

| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| D6406 | 8-719-082-03 | DIODE | MM3Z15VT1 |
| D6407 | 8-719-082-03 | DIODE | MM3Z15VT1 |
| D6409 | 6-500-567-21 | DIODE | 10ERB20-TB5 |
| D6410 | 6-500-567-21 | DIODE | 10ERB20-TB5 |
| D6411 | 8-719-082-03 | DIODE | MM3Z15VT1 |
| D6413 | 8-719-082-03 | DIODE | MM3Z15VT1 |
| D6415 | 8-719-082-03 | DIODE | MM3Z15VT1 |
| D6502 | 8-719-060-88 | DIODE | D4SBS6 |
| D6503 | 8-719-060-88 | DIODE | D4SBS6 |
| D6504 | 8-719-510-13 | DIODE | D10SC4MR |
| D6508 | 8-719-062-40 | DIODE | D4SBL20µF3 |
| D6509 | 8-719-052-90 | DIODE | D1NL40-TA2 |
| D6510 | 8-719-052-37 | DIODE | F10P04Q |
| D6601 | 8-719-078-04 | DIODE | EC31QS03L-TE12L |
| D6602 | 6-500-027-01 | DIODE | MM3Z8V2ST1 |
| D6603 | 8-719-081-97 | DIODE | MMDL914T1 |
| D6606 | 8-719-028-72 | DIODE | RGP02-17EL-6433 |
| D6800 | 8-719-150-92 | DIODE | RD33EB3T |
| D6803 | 8-719-081-97 | DIODE | MMDL914T1 |
| D6804 | 6-500-654-01 | DIODE | MM3Z3V0T1 |
| D6805 | 8-719-081-97 | DIODE | MMDL914T1 |
| D8001 | 8-719-081-97 | DIODE | MMDL914T1 |
| D8003 | 8-719-081-97 | DIODE | MMDL914T1 |
| D8005 | 8-719-081-97 | DIODE | MMDL914T1 |
| D8006 | 6-500-567-21 | DIODE | 10ERB20-TB5 |
| D8007 | 8-719-081-97 | DIODE | MMDL914T1 |
| D8009 | 8-719-072-69 | DIODE | PDZ15B-115 |
| D8010 | 8-719-083-78 | DIODE | 10ERA60-TP |
| D8011 | 8-719-082-03 | DIODE | MM3Z15VT1 |
| D8012 | 8-719-082-03 | DIODE | MM3Z15VT1 |
| D8015 | 8-719-081-97 | DIODE | MMDL914T1 |
| D8019 | 8-719-070-10 | DIODE | NNCD5.1A-T1 |
| D8022 | 8-719-063-73 | DIODE | D1NL20U-TR |
| D8023 | 8-719-070-10 | DIODE | NNCD5.1A-T1 |
| D8024 | 8-719-976-99 | DIODE | DTZ5.1B |
| D8026 | 8-719-081-97 | DIODE | MMDL914T1 |
| D8027 | 6-500-654-01 | DIODE | MM3Z3V0T1 |
| D8030 | 8-719-056-93 | DIODE | UDZ-TE-17-18B |
| D8034 | 8-719-056-83 | DIODE | UDZ-TE-17-6.8B |
| D8038 | 8-719-082-03 | DIODE | MM3Z15VT1 |
| D8039 | 8-719-082-03 | DIODE | MM3Z15VT1 |
| D8041 | 8-719-082-03 | DIODE | MM3Z15VT1 |
| D8140 | 8-719-404-50 | DIODE | MA111-TX |
| D9407 | 8-719-991-33 | DIODE | 1SS133T-77 |
| D9409 | 8-719-110-17 | DIODE | RD10ESB2 |

**FERRITE BEAD**

| | | | |
|---|---|---|---|
| FB5201 | 1-469-578-11 | FERRITE | 1.1µH |
| FB5203 | 1-469-127-21 | FERRITE | 0µH |
| FB5205 | 1-469-578-11 | FERRITE | 1.1µH |
| FB6400 | 1-469-579-11 | FERRITE | 0.45µH |
| FB6401 | 1-469-579-11 | FERRITE | 0.45µH |
| FB6402 | 1-469-579-11 | FERRITE | 0.45µH |
| FB6403 | 1-469-579-11 | FERRITE | 0.45µH |
| FB6405 | 1-469-579-11 | FERRITE | 0.45µH |
| FB6406 | 1-469-579-11 | FERRITE | 0.45µH |
| FB6407 | 1-469-579-11 | FERRITE | 0.45µH |
| FB6408 | 1-469-579-11 | FERRITE | 0.45µH |
| FB6500 | 1-469-579-11 | FERRITE | 0.45µH |
| FB6501 | 1-469-579-11 | FERRITE | 0.45µH |
| FB6506 | 1-469-578-11 | FERRITE | 1.1µH |
| FB6507 | 1-469-578-11 | FERRITE | 1.1µH |
| FB6508 | 1-469-578-11 | FERRITE | 1.1µH |
| FB8001 | 1-469-579-11 | FERRITE | 0.45µH |
| FB8002 | 1-469-579-11 | FERRITE | 0.45µH |
| FB8003 | 1-469-579-11 | FERRITE | 0.45µH |

**IC**

| | | | |
|---|---|---|---|
| IC5101 | 8-759-593-33 | IC | LA78045 |
| IC5201 | 8-759-585-82 | IC | BA9759F-E2 |
| IC6400 | 6-705-810-01 | IC | MCZ3001DB |
| IC6501 | 8-759-458-79 | IC | PQ12RD11 |
| IC6503 | 6-704-264-01 | IC | EK1135 |
| IC6601 | 6-706-502-01 | IC | SI-8015JF |
| IC6801 | 8-749-921-86 | IC | SE-140N |
| IC8001 | 8-759-700-07 | IC | NJM2903M |
| IC8002 | 6-705-810-01 | IC | MCZ3001DB |
| IC8004 | 8-759-701-01 | IC | NJM2904M |
| IC8005 | 8-759-586-17 | IC | TL1431CZ-AP |
| IC8104 | 8-759-586-17 | IC | TL1431CZ-AP |
| IC9400 | 6-600-383-01 | IC | STK394-510 |
| IC9401 | 6-600-383-01 | IC | STK394-510 |

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

D

| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| | **CHIP CONDUCTOR** | | |
| JR1016 | 1-216-864-11 | SHORT CHIP | |
| JR1020 | 1-216-864-11 | SHORT CHIP | |
| JR1021 | 1-216-864-11 | SHORT CHIP | |
| JR1022 | 1-216-864-11 | SHORT CHIP | |
| JR5001 | 1-216-864-11 | SHORT CHIP | |
| JR5002 | 1-216-864-11 | SHORT CHIP | |
| JR5003 | 1-216-864-11 | SHORT CHIP | |
| JR5004 | 1-216-864-11 | SHORT CHIP | |
| JR8001 | 1-216-864-11 | SHORT CHIP | |
| JR8003 | 1-216-864-11 | SHORT CHIP | |
| JR8004 | 1-216-864-11 | SHORT CHIP | |
| JR8009 | 1-216-864-11 | SHORT CHIP | |
| JR8010 | 1-216-864-11 | SHORT CHIP | |
| | **COIL** | | |
| L5101 | 1-406-665-11 | INDUCTOR | 100µH |
| L5202 | 1-414-189-31 | INDUCTOR | 100µH |
| L5403 | 1-456-109-11 | COIL,HORIZONTAL LINEARITY(HLC) | |
| L5405 | 1-412-552-11 | INDUCTOR | 2.2MH |
| L6400 | 1-414-187-11 | INDUCTOR | 47µH |
| L6501 | 1-412-525-31 | INDUCTOR | 10µH |
| L6502 | 1-412-525-31 | INDUCTOR | 10µH |
| L6503 | 1-412-525-31 | INDUCTOR | 10µH |
| L6504 | 1-412-525-31 | INDUCTOR | 10µH |
| L6505 | 1-412-525-31 | INDUCTOR | 10µH |
| L6508 | 1-412-525-31 | INDUCTOR | 10µH |
| L6601 | 1-412-537-31 | INDUCTOR | 100µH |
| L8002 | 1-428-950-31 | INDUCTOR | 125µH |
| L9400 | 1-414-187-11 | INDUCTOR | 47µH |
| L9401 | 1-414-187-11 | INDUCTOR | 47µH |
| L9402 | 1-414-187-11 | INDUCTOR | 47µH |
| L9403 | 1-414-187-11 | INDUCTOR | 47µH |
| L9404 | 1-412-533-21 | INDUCTOR | 47µH |
| L9405 | 1-412-533-21 | INDUCTOR | 47µH |
| L9406 | 1-412-533-21 | INDUCTOR | 47µH |
| L9407 | 1-412-533-21 | INDUCTOR | 47µH |
| | **PHOTO COUPLER** | | |
| ⚠ PH6700 | 6-600-187-01 | PHOTO COUPLER | PC123Y22JOOF |
| ⚠ PH8001 | 6-600-187-01 | PHOTO COUPLER | PC123Y22JOOF |
| ⚠ PH8003 | 6-600-187-01 | PHOTO COUPLER | PC123Y22JOOF |
| ⚠ PH8004 | 6-600-187-01 | PHOTO COUPLER | PC123Y22JOOF |

| REF. NO. | PART NO. | DESCRIPTION | VALUES | |
|---|---|---|---|---|
| | **IC LINK** | | | |
| ⚠ PS6500 | 1-533-790-42 | IC LINK | 7A | 90V |
| ⚠ PS6501 | 1-533-790-42 | IC LINK | 7A | 90V |
| ⚠ PS9400 | 1-533-594-32 | IC LINK | 2.5A | 90V |
| ⚠ PS9401 | 1-533-594-32 | IC LINK | 2.5A | 90V |
| ⚠ PS9402 | 1-533-594-32 | IC LINK | 2.5A | 90V |
| ⚠ PS9403 | 1-533-594-32 | IC LINK | 2.5A | 90V |
| ⚠ PS9404 | 1-533-594-32 | IC LINK | 2.5A | 90V |
| ⚠ PS9405 | 1-533-594-32 | IC LINK | 2.5A | 90V |
| | **TRANSISTOR** | | | |
| Q5001 | 6-550-144-01 | TRANSISTOR | 2SC5778-YB | |
| Q5004 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q5005 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q5006 | 8-729-038-83 | TRANSISTOR | 2SK2251-01-F19 | |
| Q5008 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q5009 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | |
| Q5101 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q5102 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q5103 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q5201 | 6-550-153-01 | TRANSISTOR | FQpF12P20XDTU | |
| Q5202 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q5203 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q5521 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | |
| Q5522 | 8-729-046-80 | TRANSISTOR | 2SC4634LS-CB11 | |
| Q5701 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q5702 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | |
| Q6400 | 6-550-882-01 | TRANSISTOR | 2SK3568(LBS2SONY,Q | |
| Q6401 | 6-550-882-01 | TRANSISTOR | 2SK3568(LBS2SONY,Q | |
| Q6802 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | |
| Q6803 | 8-729-019-57 | TRANSISTOR | 2SA1208S-TP | |
| Q8003 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q8004 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q8007 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q8008 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q8010 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | |
| Q8011 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | |
| Q8013 | 6-550-882-01 | TRANSISTOR | 2SK3568(LBS2SONY,Q | |
| Q8014 | 6-550-882-01 | TRANSISTOR | 2SK3568(LBS2SONY,Q | |
| Q8021 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | |
| Q8028 | 8-729-421-22 | TRANSISTOR | UN2211 | |
| Q8034 | 8-729-421-22 | TRANSISTOR | UN2211 | |
| Q8035 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | |

D

**RESISTOR**

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R5001 | 1-243-619-71 | METAL OXIDE | 12K | 5% | 3W |
| R5002 | 1-243-619-71 | METAL OXIDE | 12K | 5% | 3W |
| R5003 | 1-215-873-00 | METAL OXIDE | 4.7K | 5% | 1W |
| R5010 | 1-243-801-71 | METAL OXIDE | 0.22 | 5% | 1W |
| R5019 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R5020 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5021 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R5023 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5024 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5025 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R5028 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R5029 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5031 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R5032 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R5033 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W |
| R5101 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R5102 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R5103 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5104 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5106 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5107 | 1-218-865-11 | METAL CHIP | 5.6K | 0.50% | 1/10W |
| R5108 | 1-218-865-11 | METAL CHIP | 5.6K | 0.50% | 1/10W |
| R5109 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5110 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5111 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W |
| R5112 | 1-218-865-11 | METAL CHIP | 5.6K | 0.50% | 1/10W |
| R5113 | 1-218-865-11 | METAL CHIP | 5.6K | 0.50% | 1/10W |
| R5115 | 1-218-867-11 | METAL CHIP | 6.8K | 0.50% | 1/10W |
| R5116 | 1-218-867-11 | METAL CHIP | 6.8K | 0.50% | 1/10W |
| R5117 | 1-214-800-11 | METAL | 2.2 | 1% | 1/2W |
| R5118 | 1-214-800-11 | METAL | 2.2 | 1% | 1/2W |
| R5119 | 1-243-572-71 | METAL OXIDE | 470 | 5% | 2W |
| R5120 | 1-243-572-71 | METAL OXIDE | 470 | 5% | 2W |
| R5121 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R5126 | 1-218-917-11 | METAL CHIP | 820K | 0.50% | 1/10W |
| R5127 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R5201 | 1-218-879-11 | METAL CHIP | 22K | 0.50% | 1/10W |
| R5202 | 1-218-884-11 | METAL CHIP | 36K | 0.50% | 1/10W |
| R5206 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R5207 | 1-218-889-11 | METAL CHIP | 56K | 0.50% | 1/10W |
| R5208 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R5209 | 1-218-895-11 | METAL CHIP | 100K | 0.50% | 1/10W |
| R5210 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R5211 | 1-218-895-11 | METAL CHIP | 100K | 0.50% | 1/10W |
| R5212 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R5213 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R5214 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R5215 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R5216 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5217 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R5221 | 1-218-895-11 | METAL CHIP | 100K | 0.50% | 1/10W |
| R5223 | 1-218-895-11 | METAL CHIP | 100K | 0.50% | 1/10W |
| R5241 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R5243 | 1-216-843-11 | METAL CHIP | 68K | 5% | 1/10W |
| R5245 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5247 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R5249 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R5250 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R5251 | 1-218-895-11 | METAL CHIP | 100K | 0.50% | 1/10W |
| R5252 | 1-218-895-11 | METAL CHIP | 100K | 0.50% | 1/10W |
| R5415 | 1-243-693-71 | METAL OXIDE | 270 | 5% | 1W |
| R5435 | 1-260-314-11 | CARBON | 68 | 5% | 1/2W |
| R5436 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| R5581 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5582 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R5583 | 1-260-107-11 | CARBON | 4.7K | 5% | 1/2W |
| R5584 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R5585 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R5586 | 1-216-827-11 | METAL CHIP | 3.3K | 5% | 1/10W |
| R5587 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R5588 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R5589 | 1-216-842-11 | METAL CHIP | 56K | 5% | 1/10W |
| R5701 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R5702 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R6402 | 1-218-870-11 | METAL CHIP | 9.1K | 0.50% | 1/10W |
| R6405 | 1-218-823-11 | METAL CHIP | 100 | 0.50% | 1/10W |
| R6406 | 1-245-478-21 | METAL | 470K | 1% | 1/4W |
| R6407 | 1-218-875-11 | METAL CHIP | 15K | 0.50% | 1/10W |
| R6409 | 1-218-830-11 | METAL CHIP | 200 | 0.50% | 1/10W |
| R6410 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R6411 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R6412 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R6413 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R6414 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R6417 | 1-245-315-71 | METAL OXIDE | 0.1 | 5% | 2W |
| R6418 | 1-245-315-71 | METAL OXIDE | 0.1 | 5% | 2W |

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

D

| | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|
| | R6419 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| | R6420 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| ⚠ | R6421 | 1-202-933-61 | FUSIBLE | 0.1 | 10% | 1/2W |
| | R6427 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| | R6428 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| | R6429 | 1-245-478-21 | METAL | 470K | 1% | 1/4W |
| | R6500 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | R6501 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | R6503 | 1-215-925-11 | METAL OXIDE | 22K | 5% | 3W |
| | R6504 | 1-260-298-51 | CARBON | 3.3 | 5% | 1/2W |
| | R6515 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W |
| | R6590 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| | R6601 | 1-218-858-11 | METAL CHIP | 3K | 0.50% | 1/10W |
| | R6602 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| | R6603 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| | R6604 | 1-218-874-11 | METAL CHIP | 13K | 0.50% | 1/10W |
| | R6605 | 1-218-861-11 | METAL CHIP | 3.9K | 0.50% | 1/10W |
| | R6612 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W |
| | R6700 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| | R6702 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| | R6703 | 1-218-484-11 | METAL CHIP | 750 | 5% | 1/10W |
| | R6704 | 1-218-484-11 | METAL CHIP | 750 | 5% | 1/10W |
| | R6705 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | R6809 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W |
| | R6810 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| | R6811 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| | R6812 | 1-243-511-71 | METAL OXIDE | 2.2 | 5% | 3W |
| | R6813 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | R6814 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| | R6815 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| | R6816 | 1-216-846-11 | METAL CHIP | 120K | 5% | 1/10W |
| | R6817 | 1-216-846-11 | METAL CHIP | 120K | 5% | 1/10W |
| | R6818 | 1-245-471-21 | METAL | 240K | 1% | 1/4W |
| | R6821 | 1-245-471-21 | METAL | 240K | 1% | 1/4W |
| | R8001 | 1-219-512-11 | METAL | 2.2M | 5% | 1/2W |
| | R8002 | 1-219-512-11 | METAL | 2.2M | 5% | 1/2W |
| | R8003 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| | R8004 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| | R8005 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| | R8008 | 1-218-877-11 | METAL CHIP | 18K | 0.50% | 1/10W |
| | R8010 | 1-218-484-11 | METAL CHIP | 750 | 5% | 1/10W |
| | R8011 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| | R8012 | 1-218-484-11 | METAL CHIP | 750 | 5% | 1/10W |
| | R8013 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |

| | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|
| | R8014 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| | R8015 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| | R8016 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| | R8017 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| ⚠ | R8019 | 1-218-875-11 | METAL CHIP | 15K | 0.50% | 1/10W |
| | R8020 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | R8022 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| | R8024 | 1-216-839-11 | METAL CHIP | 33K | 5% | 1/10W |
| | R8025 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| | R8026 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| | R8027 | 1-218-891-11 | METAL CHIP | 68K | 0.50% | 1/10W |
| | R8028 | 1-218-871-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| | R8029 | 1-218-891-11 | METAL CHIP | 68K | 0.50% | 1/10W |
| | R8030 | 1-218-895-11 | METAL CHIP | 100K | 0.50% | 1/10W |
| | R8031 | 1-218-895-11 | METAL CHIP | 100K | 0.50% | 1/10W |
| | R8032 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| | R8033 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| ⚠ | R8035 | 1-218-861-11 | METAL CHIP | 3.9K | 0.50% | 1/10W |
| ⚠ | R8036 | 1-215-419-00 | METAL | 820 | 1% | 1/4W |
| ⚠ | R8037 | 1-215-447-00 | METAL | 12K | 1% | 1/4W |
| ⚠ | R8038 | 1-215-447-00 | METAL | 12K | 1% | 1/4W |
| ⚠ | R8039 | 1-215-447-00 | METAL | 12K | 1% | 1/4W |
| ⚠ | R8040 | 1-215-445-00 | METAL | 10K | 1% | 1/4W |
| ⚠ | R8041 | 1-216-864-11 | SHORT CHIP | | | |
| ⚠ | R8043 | 1-215-447-00 | METAL | 12K | 1% | 1/4W |
| | R8046 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| | R8049 | 1-218-823-11 | METAL CHIP | 100 | 0.50% | 1/10W |
| | R8050 | 1-211-979-11 | METAL CHIP | 27 | 0.50% | 1/10W |
| | R8051 | 1-202-933-61 | FUSIBLE | 0.1 | 10% | 1/2W |
| | R8052 | 1-218-893-11 | METAL CHIP | 82K | 0.50% | 1/10W |
| | R8054 | 1-245-478-21 | METAL | 470K | 1% | 1/4W |
| | R8055 | 1-245-478-21 | METAL | 470K | 1% | 1/4W |
| | R8056 | 1-218-870-11 | METAL CHIP | 9.1K | 0.50% | 1/10W |
| | R8057 | 1-218-874-11 | METAL CHIP | 13K | 0.50% | 1/10W |
| | R8058 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| | R8060 | 1-218-839-11 | METAL CHIP | 470 | 0.50% | 1/10W |
| | R8061 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| | R8062 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | R8063 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| | R8066 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| | R8069 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| | R8070 | 1-245-315-71 | METAL OXIDE | 0.1 | 5% | 2W |
| | R8072 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W |
| | R8073 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**A component identified by this ⋈ symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.**

D

| | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|
| | R8074 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| | R8076 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| ⚠ | R8078 | 1-218-895-11 | METAL CHIP | 100K | 0.50% | 1/10W |
| | R8079 | 1-215-449-00 | METAL | 15K | 1% | 1/4W |
| | R8082 | 1-216-863-11 | METAL CHIP | 3.3M | 5% | 1/10W |
| | R8085 | 1-219-749-91 | METAL | 10K | 5% | 1/2W |
| | R8086 | 1-219-750-91 | METAL | 22K | 5% | 1/2W |
| | R8092 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W |
| | R8096 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| | R8097 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/10W |
| | R8099 | 1-218-839-11 | METAL CHIP | 470 | 0.50% | 1/10W |
| | R8137 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| | R8138 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| | R8144 | 1-216-849-11 | METAL CHIP | 220K | 5% | 1/10W |
| | R8145 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| | R8146 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| | R8158 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | R8159 | 1-216-835-11 | METAL CHIP | 15K | 5% | 1/10W |
| | R8160 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| | R8161 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| ⚠ | R8165 | 1-218-897-11 | METAL CHIP | 120K | 0.50% | 1/10W |
| | R8166 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | R9407 | 1-218-823-11 | METAL CHIP | 100 | 0.50% | 1/10W |
| | R9408 | 1-218-823-11 | METAL CHIP | 100 | 0.50% | 1/10W |
| | R9409 | 1-218-823-11 | METAL CHIP | 100 | 0.50% | 1/10W |
| | R9410 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | R9411 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| | R9412 | 1-218-823-11 | METAL CHIP | 100 | 0.50% | 1/10W |
| | R9413 | 1-218-823-11 | METAL CHIP | 100 | 0.50% | 1/10W |
| | R9414 | 1-218-823-11 | METAL CHIP | 100 | 0.50% | 1/10W |
| | R9415 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| | R9416 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| | R9417 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | R9418 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| | R9419 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| | R9420 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| | R9424 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| | R9425 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| | R9427 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9428 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9430 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9432 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9433 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| | R9434 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9435 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| | R9436 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9437 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9438 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9440 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9441 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9442 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9443 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9446 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9447 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9448 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| | R9450 | 1-218-887-11 | METAL CHIP | 47K | 0.50% | 1/10W |
| | R9451 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9452 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9453 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| | R9454 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9455 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9456 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9457 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9458 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9459 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9460 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9461 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9462 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9463 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9464 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9465 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9466 | 1-243-532-71 | METAL OXIDE | 120 | 5% | 3W |
| | R9467 | 1-243-532-71 | METAL OXIDE | 120 | 5% | 3W |
| | R9468 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9470 | 1-214-808-11 | METAL | 4.7 | 1% | 1/2W |
| | R9471 | 1-243-532-71 | METAL OXIDE | 120 | 5% | 3W |
| | R9472 | 1-243-532-71 | METAL OXIDE | 120 | 5% | 3W |
| | R9473 | 1-243-532-71 | METAL OXIDE | 120 | 5% | 3W |
| | R9474 | 1-243-532-71 | METAL OXIDE | 120 | 5% | 3W |

**VARIABLE RESISTOR**

| | | | |
|---|---|---|---|
| ⋈ | RV8002 | 1-225-627-91 | RES, VAR, ADJ, CERMET 2K |

**SPARK GAP**

| | | |
|---|---|---|
| SG5500 | 1-519-466-11 | GAP, SPARK |
| SG8002 | 1-517-499-21 | GAP, SPARK |

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

D G

| | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|
| | | **TRANSFORMER** | | | | |
| | T5001 | 1-437-739-11 | TRANSFORMER, FERRITE (HDT) | | | |
| | T5002 | 1-443-395-11 | FERRITE TRANSFOMAR (HOT) | | | |
| | T5500 | 1-443-394-11 | TRANSFORMER, FERRITE (DFT) | | | |
| ⚠ | T6400 | 1-439-821-11 | TRANSFORMER, CONVERTER (PIT) | | | |
| ⚠ | T8001 | 1-453-450-11 | FBT ASSY NX-6030//M3A4 | | | |

G

| | | | | | | |
|---|---|---|---|---|---|---|
| * | | **A-1054-157-A** | **G BOARD, COMPLETE** | | | |
| | | 4-382-854-01 | SCREW (M3X8), P, SW (+) | | | |
| | | **CAPACITOR** | | | | |
| ⚠ | C6001 | 1-165-530-31 | MYLAR | 0.47µF | 10 | 0V |
| ⚠ | C6002 | 1-119-894-51 | CERAMIC | 2200pF | 20% | 250V |
| ⚠ | C6003 | 1-165-530-31 | MYLAR | 0.47µF | 10 | 0V |
| ⚠ | C6004 | 1-119-894-51 | CERAMIC | 2200pF | 20% | 250V |
| ⚠ | C6006 | 1-113-889-11 | CERAMIC | 0.001µF | 20% | 250V |
| | C6007 | 1-161-964-91 | CERAMIC | 0.0047µF | | 250V |
| | C6008 | 1-161-964-91 | CERAMIC | 0.0047µF | | 250V |
| | C6011 | 1-137-750-11 | ELECT | 1500µF | 20% | 250V |
| | C6012 | 1-137-750-11 | ELECT | 1500µF | 20% | 250V |
| ⚠ | C6013 | 1-119-894-51 | CERAMIC | 2200pF | 20% | 250V |
| ⚠ | C6015 | 1-119-894-51 | CERAMIC | 2200pF | 20% | 250V |
| | C6112 | 1-126-965-91 | ELECT | 22µF | 20% | 50V |
| | C6115 | 1-126-943-11 | ELECT | 2200µF | 20% | 25V |
| | C6116 | 1-126-967-11 | ELECT | 47µF | 20% | 50V |
| | C6120 | 1-126-968-11 | ELECT | 100µF | 20% | 50V |
| | C6127 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| | | **CONNECTOR** | | | | |
| * | CN6000 | 1-580-843-11 | PIN, CONNECTOR (POWER) | | | |
| *⚠ | CN6001 | 1-580-843-11 | PIN, CONNECTOR (POWER) | | | |
| | CN6004 | 1-695-915-11 | TAB (CONTACT) | | | |
| | CN6012 | 1-564-507-11 | PLUG, CONNECTOR | | | 4P |
| | | **DIODE** | | | | |
| | D6000 | 8-719-081-97 | DIODE | MMDL914T1 | | |
| | D6005 | 8-719-022-99 | DIODE | D6SB60L | | |
| | D6006 | 8-719-083-78 | DIODE | 10ERA60-TP | | |
| | D6007 | 8-719-083-78 | DIODE | 10ERA60-TP | | |
| | D6108 | 8-719-056-93 | DIODE | UDZ-TE-17-18B | | |
| | D6109 | 8-719-510-02 | DIODE | D1NS4 | | |
| | D6113 | 6-500-582-01 | DIODE | KBP153G-A2 | | |
| | D6115 | 8-719-081-97 | DIODE | MMDL914T1 | | |
| | D6116 | 8-719-081-97 | DIODE | MMDL914T1 | | |
| | D6117 | 8-719-081-97 | DIODE | MMDL914T1 | | |
| | D6118 | 6-500-555-01 | DIODE | MM3Z27VT1 | | |
| | D6119 | 8-719-081-97 | DIODE | MMDL914T1 | | |
| | D6120 | 8-719-081-97 | DIODE | MMDL914T1 | | |
| | D6123 | 8-719-081-97 | DIODE | MMDL914T1 | | |
| | D6301 | 6-500-567-21 | DIODE | 10ERB20-TB5 | | |
| | | **FUSE** | | | | |
| ⚠ | F6000 | 1-576-753-11 | FUSE | 6.3A | | 250V |
| | | **FUSE HOLDER** | | | | |
| ⚠ | FH6000 | 1-533-223-11 | FUSE HOLDER | 0A | | 0V |
| ⚠ | FH6001 | 1-533-223-11 | FUSE HOLDER | 0A | | 0V |
| | | **IC** | | | | |
| | IC6100 | 8-759-450-47 | IC | BA05T | | |
| | | **CHIP CONDUCTOR** | | | | |
| | JR6000 | 1-216-864-11 | SHORT CHIP | | | |
| | JR6001 | 1-216-864-11 | SHORT CHIP | | | |
| | JR6002 | 1-216-864-11 | SHORT CHIP | | | |
| | | **COIL** | | | | |
| ⚠ | L6000 | 1-433-900-31 | TRANSFORMER, LINE FILTER | | | |
| ⚠ | L6001 | 1-433-900-31 | TRANSFORMER, LINE FILTER | | | |
| | L6002 | 1-406-977-21 | INDUCTOR | 100µH | | |
| | | **TRANSISTOR** | | | | |
| | Q6102 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | | |
| | Q6107 | 8-729-140-96 | TRANSISTOR | 2SD774-34 | | |
| | Q6109 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | | |
| | Q6110 | 8-729-010-05 | TRANSISTOR | MSB709-RT1 | | |
| | Q6111 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | | |
| | Q6112 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 | | |

**NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.**

**NOTE: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

GBM

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| | **RESISTOR** | | | | |
| ⚠ R6001 | 1-219-568-91 | METAL | 8.2M | 5% | 1/2W |
| R6002 | 1-240-303-31 | CEMENTED | 0.22 | 5% | 10W |
| R6004 | 1-240-303-31 | CEMENTED | 0.22 | 5% | 10W |
| R6012 | 1-219-510-11 | METAL | 470K | 5% | 1/2W |
| R6013 | 1-219-510-11 | METAL | 470K | 5% | 1/2W |
| R6111 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R6113 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R6115 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R6119 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R6120 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R6121 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R6124 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R6125 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R6126 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R6127 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R6128 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R6129 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R6130 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| | **RELAY** | | | | |
| ⚠ RY6000 | 1-755-395-11 | RELAY (AC POWER) | | | |
| | **TRANSFORMER** | | | | |
| ⚠ T6101 | 1-437-783-11 | TRANSFORMER, STANDBY | | | |
| | **VARISTOR** | | | | |
| ⚠ VD6000 | 1-804-992-21 | VARISTOR | | | |
| VD6100 | 1-804-499-21 | VARISTOR, CHIP | (1608) | | |

BM

**Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.**
**Data is provided for reference only.**

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| * | **A-1063-104-A** | **BM BOARD, COMPLETE** | | | |
| | **CAPACITOR** | | | | |
| C3032 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3035 | 1-117-681-11 | ELECT CHIP | 100µF | 20% | 16V |
| C3036 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3037 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V |
| C3038 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3039 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3040 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3100 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| C3101 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| C3102 | 1-124-779-00 | ELECT CHIP | 10µF | 20% | 16V |
| C3104 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3105 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3106 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3107 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3108 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3109 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3110 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3111 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3112 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3113 | 1-126-204-11 | ELECT CHIP | 47µF | 20% | 16V |
| C3114 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3115 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3116 | 1-126-204-11 | ELECT CHIP | 47µF | 20% | 16V |
| C3117 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3118 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3119 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3120 | 1-126-204-11 | ELECT CHIP | 47µF | 20% | 16V |
| C3121 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3122 | 1-126-204-11 | ELECT CHIP | 47µF | 20% | 16V |
| C3123 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3124 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3125 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3126 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3127 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3128 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |

BM

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| C3129 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3130 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3131 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3132 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3133 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3134 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3135 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3136 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3137 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3138 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3139 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3140 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3141 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3142 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3143 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3144 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3145 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3146 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V |
| C3147 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3148 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3149 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3150 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3151 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3152 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3153 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3154 | 1-137-710-11 | CERAMIC CHIP | 10µF | 20% | 6.3V |
| C3155 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3156 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3157 | 1-137-710-11 | CERAMIC CHIP | 10µF | 20% | 6.3V |
| C3158 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3159 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3160 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3161 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3162 | 1-128-357-11 | ELECT CHIP | 10µF | 20% | 16V |
| C3163 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V |
| C3164 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3165 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3166 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3167 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3168 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3169 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V |
| C3170 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V |
| C3171 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3172 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V |
| C3173 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3174 | 1-124-778-00 | ELECT CHIP | 22µF | 20% | 6.3V |
| C3178 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3179 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3180 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V |
| C3181 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C3182 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C3183 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C3184 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C3185 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C3186 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C3188 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C3189 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C3201 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3202 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3203 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V |
| C3204 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3205 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3206 | 1-126-204-11 | ELECT CHIP | 47µF | 20% | 16V |
| C3207 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3208 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3209 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V |
| C3210 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3211 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3212 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3213 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3214 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3215 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3216 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3217 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V |
| C3218 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3219 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3222 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3224 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3227 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3229 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3231 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3232 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3233 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3235 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3236 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3238 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3239 | 1-126-204-11 | ELECT CHIP | 47µF | 20% | 16V |
| C3240 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C3241 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3344 | 1-162-916-11 | CERAMIC CHIP | 12pF | 5% | 50V |
| C3242 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3345 | 1-162-916-11 | CERAMIC CHIP | 12pF | 5% | 50V |
| C3243 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3346 | 1-126-204-11 | ELECT CHIP | 47µF | 20% | 16V |
| C3244 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3347 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3245 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3351 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3246 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3352 | 1-126-204-11 | ELECT CHIP | 47µF | 20% | 16V |
| C3248 | 1-216-864-11 | SHORT CHIP | | | | C3353 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3250 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3354 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3251 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3355 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3252 | 1-128-996-11 | ELECT CHIP | 4.7µF | 20% | 50V | C3357 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3256 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3358 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V |
| C3304 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3360 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3305 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V | C3361 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3306 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3362 | 1-162-923-11 | CERAMIC CHIP | 47pF | 5% | 50V |
| C3307 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3363 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3308 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3366 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3309 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3367 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3310 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V | C3368 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3311 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3369 | 1-124-779-00 | ELECT CHIP | 10µF | 20% | 16V |
| C3312 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3370 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3313 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3371 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3316 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3372 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3318 | 1-124-779-00 | ELECT CHIP | 10µF | 20% | 16V | C3373 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3319 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3374 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3320 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3375 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V |
| C3321 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3376 | 1-126-206-11 | ELECT CHIP | 100µF | 20% | 6.3V |
| C3322 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3377 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3323 | 1-124-779-00 | ELECT CHIP | 10µF | 20% | 16V | C3381 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3325 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3382 | 1-126-204-11 | ELECT CHIP | 47µF | 20% | 16V |
| C3326 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3383 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3328 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3384 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3329 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3385 | 1-126-205-11 | ELECT CHIP | 47µF | 20% | 6.3V |
| C3330 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3386 | 1-126-205-11 | ELECT CHIP | 47µF | 20% | 6.3V |
| C3332 | 1-125-891-11 | CERAMIC CHIP | 0.47µF | 10% | 10V | C3387 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3333 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3388 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| C3334 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3389 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3335 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3390 | 1-126-205-11 | ELECT CHIP | 47µF | 20% | 6.3V |
| C3336 | 1-128-994-21 | ELECT CHIP | 47µF | 20% | 10V | C3391 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3337 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3392 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3338 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V | C3393 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3339 | 1-126-204-11 | ELECT CHIP | 47µF | 20% | 16V | C3395 | 1-124-779-00 | ELECT CHIP | 10µF | 20% | 16V |
| C3340 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3396 | 1-124-779-00 | ELECT CHIP | 10µF | 20% | 16V |
| C3341 | 1-126-204-11 | ELECT CHIP | 47µF | 20% | 16V | C3397 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C3343 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V | C3398 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |

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| | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|
| | C3453 | 1-124-779-00 | ELECT CHIP | 10µF | 20% | 16V |
| | C3454 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| | C3455 | 1-124-779-00 | ELECT CHIP | 10µF | 20% | 16V |
| | C3456 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| | C3457 | 1-124-779-00 | ELECT CHIP | 10µF | 20% | 16V |
| | C3458 | 1-164-156-11 | CERAMIC CHIP | 0.1µF | | 25V |
| | C3459 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| | C3460 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| | C3461 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| | C3462 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| | C3463 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| | C3465 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| | C3466 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| | | **CONNECTOR** | | | | |
| * | CN3001 | 1-816-448-11 | CONNECTOR, BOARD TO BOARD | | | 50P |
| | | **DIODE** | | | | |
| | D3301 | 8-719-066-11 | DIODE | 1PS184-115 | | |
| | D3302 | 8-719-066-10 | DIODE | 1PS181-115 | | |
| | | **FERRITE BEAD** | | | | |
| | FB3101 | 1-414-234-22 | FERRITE | 0µH | | |
| | FB3203 | 1-469-110-21 | FERRITE | 0µH | | |
| | FB3204 | 1-216-864-11 | SHORT CHIP | | | |
| | FB3302 | 1-216-864-11 | SHORT CHIP | | | |
| | FB3303 | 1-216-864-11 | SHORT CHIP | | | |
| | | **FILTER** | | | | |
| | FL3000 | 1-234-177-21 | FERRITE | 0µH | | |
| | FL3001 | 1-234-177-21 | FERRITE | 0µH | | |
| | FL3003 | 1-234-177-21 | FERRITE | 0µH | | |
| | FL3100 | 1-234-677-21 | FILTER, EMI | | | |
| | FL3101 | 1-234-560-21 | FILTER, LOW PASS | | | |
| | FL3102 | 1-234-559-21 | FILTER, LOW PASS | | | |
| | FL3103 | 1-234-559-21 | FILTER, LOW PASS | | | |
| | FL3104 | 1-234-177-21 | FERRITE | 0µH | | |
| | FL3105 | 1-234-177-21 | FERRITE | 0µH | | |
| | FL3106 | 1-234-177-21 | FERRITE | 0µH | | |
| | FL3107 | 1-234-177-21 | FERRITE | 0µH | | |
| | FL3200 | 1-234-177-21 | FERRITE | 0µH | | |

| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| FL3201 | 1-234-177-21 | FERRITE | 0µH |
| FL3301 | 1-781-923-21 | FILTER, LOW PASS (SMD) | |
| FL3302 | 1-234-177-21 | FERRITE | 0µH |
| FL3304 | 1-234-177-21 | FERRITE | 0µH |
| FL3305 | 1-234-177-21 | FERRITE | 0µH |
| FL3306 | 1-234-177-21 | FERRITE | 0µH |
| | **IC** | | |
| IC3101 | 8-752-425-02 | IC | CXD3802BQ |
| IC3102 | 6-703-430-01 | IC | MT48LC2M32B2TG-6-Y94W |
| IC3103 | 6-705-529-01 | IC | LMH6658MMX/J5000172 |
| IC3104 | 6-705-529-01 | IC | LMH6658MMX/J5000172 |
| IC3105 | 6-705-403-01 | IC | PQ070XZ01ZPH |
| IC3106 | 6-705-403-01 | IC | PQ070XZ01ZPH |
| IC3201 | 8-752-409-78 | IC | CXD2095AQ |
| IC3202 | 6-703-791-01 | IC | MSM56V16160F-8T3FM1 |
| IC3204 | 6-702-552-01 | IC | BU2374FV-E2 |
| IC3205 | 6-705-403-01 | IC | PQ070XZ01ZPH |
| IC3301 | 8-759-672-57 | IC | CXD9509AQ |
| IC3302 | 6-703-430-01 | IC | MT48LC2M32B2TG-6-Y94W |
| IC3303 | 8-752-409-20 | IC | CXD2309AQ |
| IC3305 | 8-759-669-75 | IC | TLC2932IPWR |
| IC3306 | 8-759-453-97 | IC | TC7SET08FU(TE85R) |
| IC3307 | 8-759-453-97 | IC | TC7SET08FU(TE85R) |
| IC3308 | 8-759-453-97 | IC | TC7SET08FU(TE85R) |
| IC3309 | 8-759-082-57 | IC | TC7W04FU |
| IC3310 | 6-705-403-01 | IC | PQ070XZ01ZPH |
| IC3311 | 8-759-833-72 | IC | NJM2870F25-TE2 |
| | **COIL** | | |
| L3101 | 1-412-029-11 | INDUCTOR | 10µH |
| L3102 | 1-469-555-21 | INDUCTOR | 10µH |
| L3103 | 1-412-029-11 | INDUCTOR | 10µH |
| L3104 | 1-412-026-11 | INDUCTOR | 1µH |
| L3105 | 1-412-026-11 | INDUCTOR | 1µH |
| L3106 | 1-412-026-11 | INDUCTOR | 1µH |
| L3107 | 1-412-029-11 | INDUCTOR | 10µH |
| L3201 | 1-412-026-11 | INDUCTOR | 1µH |
| L3202 | 1-469-555-21 | INDUCTOR | 10µH |
| L3203 | 1-469-555-21 | INDUCTOR | 10µH |
| L3204 | 1-412-026-11 | INDUCTOR | 1µH |
| L3205 | 1-412-026-11 | INDUCTOR | 1µH |
| L3302 | 1-469-561-21 | INDUCTOR | 100µH |

| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| L3303 | 1-469-561-21 | INDUCTOR | 100µH |
| L3304 | 1-469-555-21 | INDUCTOR | 10µH |
| L3305 | 1-469-555-21 | INDUCTOR | 10µH |
| L3306 | 1-469-555-21 | INDUCTOR | 10µH |
| L3307 | 1-469-555-21 | INDUCTOR | 10µH |
| L3308 | 1-412-029-11 | INDUCTOR | 10µH |
| L3311 | 1-469-555-21 | INDUCTOR | 10µH |
| L3312 | 1-412-026-11 | INDUCTOR | 1µH |
| L3313 | 1-412-029-11 | INDUCTOR | 10µH |
| L3314 | 1-412-026-11 | INDUCTOR | 1µH |
| L3315 | 1-412-026-11 | INDUCTOR | 1µH |
| L3316 | 1-469-555-21 | INDUCTOR | 10µH |
| L3317 | 1-412-026-11 | INDUCTOR | 1µH |
| | **TRANSISTOR** | | |
| Q3101 | 8-729-102-07 | TRANSISTOR | 2SC2223-F13 |
| Q3102 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 |
| Q3103 | 8-729-102-07 | TRANSISTOR | 2SC2223-F13 |
| Q3104 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 |
| Q3105 | 8-729-102-07 | TRANSISTOR | 2SC2223-F13 |
| Q3106 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 |
| Q3109 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q3110 | 8-729-102-07 | TRANSISTOR | 2SC2223-F13 |
| Q3111 | 8-729-102-07 | TRANSISTOR | 2SC2223-F13 |
| Q3112 | 8-729-102-07 | TRANSISTOR | 2SC2223-F13 |
| Q3113 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q3301 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q3302 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q3304 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q3305 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q3306 | 8-729-028-28 | TRANSISTOR | 2SK2036(TE85L) |
| Q3307 | 8-729-028-28 | TRANSISTOR | 2SK2036(TE85L) |
| Q3308 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q3310 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| Q3312 | 8-729-010-25 | TRANSISTOR | MSD601-RT1 |
| | **RESISTOR** | | |
| R3023 | 1-216-864-11 | SHORT CHIP | |
| R3024 | 1-216-832-11 | METAL CHIP | 8.2K 5% 1/10W |
| R3032 | 1-216-864-11 | SHORT CHIP | |
| R3034 | 1-216-864-11 | SHORT CHIP | |
| R3035 | 1-543-949-22 | FERRITE | 0µH |
| R3036 | 1-543-949-22 | FERRITE | 0µH |
| R3037 | 1-543-949-22 | FERRITE | 0µH |
| R3038 | 1-216-864-11 | SHORT CHIP | |
| R3039 | 1-216-864-11 | SHORT CHIP | |
| R3040 | 1-216-864-11 | SHORT CHIP | |
| R3041 | 1-543-949-22 | FERRITE | 0µH |
| R3042 | 1-543-949-22 | FERRITE | 0µH |
| R3043 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3044 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3045 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3046 | 1-543-949-22 | FERRITE | 0µH |
| R3047 | 1-543-949-22 | FERRITE | 0µH |
| R3048 | 1-543-949-22 | FERRITE | 0µH |
| R3049 | 1-543-949-22 | FERRITE | 0µH |
| R3050 | 1-543-949-22 | FERRITE | 0µH |
| R3051 | 1-543-949-22 | FERRITE | 0µH |
| R3052 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3053 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3054 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3055 | 1-543-949-22 | FERRITE | 0µH |
| R3056 | 1-543-949-22 | FERRITE | 0µH |
| R3101 | 1-216-801-11 | METAL CHIP | 22 5% 1/10W |
| R3102 | 1-216-833-11 | METAL CHIP | 10K 5% 1/10W |
| R3103 | 1-216-823-11 | METAL CHIP | 1.5K 5% 1/10W |
| R3104 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3105 | 1-218-830-11 | METAL CHIP | 200 0.50% 1/10W |
| R3106 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R3107 | 1-216-820-11 | METAL CHIP | 820 5% 1/10W |
| R3108 | 1-218-830-11 | METAL CHIP | 200 0.50% 1/10W |
| R3109 | 1-216-823-11 | METAL CHIP | 1.5K 5% 1/10W |
| R3110 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3111 | 1-218-834-11 | METAL CHIP | 300 0.50% 1/10W |
| R3112 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R3113 | 1-216-820-11 | METAL CHIP | 820 5% 1/10W |
| R3114 | 1-218-834-11 | METAL CHIP | 300 0.50% 1/10W |
| R3115 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3116 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3117 | 1-216-823-11 | METAL CHIP | 1.5K 5% 1/10W |
| R3118 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3119 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3120 | 1-218-834-11 | METAL CHIP | 300 0.50% 1/10W |
| R3121 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R3122 | 1-216-820-11 | METAL CHIP | 820 5% 1/10W |
| R3123 | 1-218-834-11 | METAL CHIP | 300 0.50% 1/10W |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R3124 | 1-216-864-11 | SHORT CHIP | | | |
| R3125 | 1-216-864-11 | SHORT CHIP | | | |
| R3129 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3130 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3133 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3134 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3135 | 1-543-949-22 | FERRITE | 0µH | | |
| R3136 | 1-543-949-22 | FERRITE | 0µH | | |
| R3137 | 1-216-864-11 | SHORT CHIP | | | |
| R3138 | 1-216-864-11 | SHORT CHIP | | | |
| R3141 | 1-218-839-11 | METAL CHIP | 470 | 0.50% | 1/10W |
| R3142 | 1-218-839-11 | METAL CHIP | 470 | 0.50% | 1/10W |
| R3143 | 1-218-839-11 | METAL CHIP | 470 | 0.50% | 1/10W |
| R3144 | 1-218-841-11 | METAL CHIP | 560 | 0.50% | 1/10W |
| R3145 | 1-218-841-11 | METAL CHIP | 560 | 0.50% | 1/10W |
| R3146 | 1-218-841-11 | METAL CHIP | 560 | 0.50% | 1/10W |
| R3147 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| R3148 | 1-218-867-11 | METAL CHIP | 6.8K | 0.50% | 1/10W |
| R3150 | 1-218-861-11 | METAL CHIP | 3.9K | 0.50% | 1/10W |
| R3151 | 1-218-861-11 | METAL CHIP | 3.9K | 0.50% | 1/10W |
| R3152 | 1-218-861-11 | METAL CHIP | 3.9K | 0.50% | 1/10W |
| R3153 | 1-211-977-11 | METAL CHIP | 22 | 0.50% | 1/10W |
| R3154 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3155 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3156 | 1-216-847-11 | METAL CHIP | 150K | 5% | 1/10W |
| R3158 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3159 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R3160 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R3161 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R3162 | 1-216-864-11 | SHORT CHIP | | | |
| R3163 | 1-218-851-11 | METAL CHIP | 1.5K | 0.50% | 1/10W |
| R3164 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R3165 | 1-216-864-11 | SHORT CHIP | | | |
| R3170 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3171 | 1-216-864-11 | SHORT CHIP | | | |
| R3172 | 1-216-864-11 | SHORT CHIP | | | |
| R3174 | 1-216-864-11 | SHORT CHIP | | | |
| R3175 | 1-216-864-11 | SHORT CHIP | | | |
| R3176 | 1-216-864-11 | SHORT CHIP | | | |
| R3178 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R3179 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R3181 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3182 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3183 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R3184 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R3185 | 1-218-873-11 | METAL CHIP | 12K | 0.50% | 1/10W |
| R3186 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3187 | 1-216-864-11 | SHORT CHIP | | | |
| R3190 | 1-216-864-11 | SHORT CHIP | | | |
| R3191 | 1-216-864-11 | SHORT CHIP | | | |
| R3192 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3193 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3194 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3195 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3196 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3197 | 1-216-864-11 | SHORT CHIP | | | |
| R3198 | 1-216-864-11 | SHORT CHIP | | | |
| R3199 | 1-216-855-11 | METAL CHIP | 680K | 5% | 1/10W |
| R3201 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3202 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3206 | 1-216-864-11 | SHORT CHIP | | | |
| R3207 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3209 | 1-216-864-11 | SHORT CHIP | | | |
| R3210 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3212 | 1-216-864-11 | SHORT CHIP | | | |
| R3213 | 1-216-864-11 | SHORT CHIP | | | |
| R3214 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3216 | 1-216-864-11 | SHORT CHIP | | | |
| R3217 | 1-216-864-11 | SHORT CHIP | | | |
| R3218 | 1-216-864-11 | SHORT CHIP | | | |
| R3220 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3222 | 1-216-864-11 | SHORT CHIP | | | |
| R3223 | 1-216-864-11 | SHORT CHIP | | | |
| R3224 | 1-216-864-11 | SHORT CHIP | | | |
| R3225 | 1-216-864-11 | SHORT CHIP | | | |
| R3227 | 1-216-864-11 | SHORT CHIP | | | |
| R3228 | 1-216-864-11 | SHORT CHIP | | | |
| R3229 | 1-216-864-11 | SHORT CHIP | | | |
| R3232 | 1-216-864-11 | SHORT CHIP | | | |
| R3233 | 1-216-864-11 | SHORT CHIP | | | |
| R3234 | 1-216-864-11 | SHORT CHIP | | | |
| R3235 | 1-216-864-11 | SHORT CHIP | | | |
| R3238 | 1-216-864-11 | SHORT CHIP | | | |
| R3242 | 1-216-864-11 | SHORT CHIP | | | |
| R3243 | 1-216-864-11 | SHORT CHIP | | | |
| R3245 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3247 | 1-216-864-11 | SHORT CHIP | | | |
| R3248 | 1-216-864-11 | SHORT CHIP | | | |

BM

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R3250 | 1-216-864-11 | SHORT CHIP | | | |
| R3253 | 1-216-864-11 | SHORT CHIP | | | |
| R3255 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3256 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3257 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3259 | 1-218-859-11 | METAL CHIP | 3.3K | 0.50% | 1/10W |
| R3262 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3265 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R3266 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R3267 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R3269 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R3271 | 1-216-864-11 | SHORT CHIP | | | |
| R3272 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3279 | 1-216-864-11 | SHORT CHIP | | | |
| R3280 | 1-218-838-11 | METAL CHIP | 430 | 0.50% | 1/10W |
| R3281 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R3282 | 1-218-873-11 | METAL CHIP | 12K | 0.50% | 1/10W |
| R3283 | 1-216-864-11 | SHORT CHIP | | | |
| R3302 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3303 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R3304 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R3305 | 1-218-859-11 | METAL CHIP | 3.3K | 0.50% | 1/10W |
| R3306 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3307 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R3308 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R3310 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3311 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R3312 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R3315 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3316 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3317 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3318 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R3320 | 1-216-864-11 | SHORT CHIP | | | |
| R3321 | 1-216-823-11 | METAL CHIP | 1.5K | 5% | 1/10W |
| R3322 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3323 | 1-216-815-11 | METAL CHIP | 330 | 5% | 1/10W |
| R3325 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3329 | 1-216-864-11 | SHORT CHIP | | | |
| R3330 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R3331 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| R3333 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3334 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3335 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R3336 | 1-216-855-11 | METAL CHIP | 680K | 5% | 1/10W |
| R3337 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3340 | 1-216-864-11 | SHORT CHIP | | | |
| R3341 | 1-216-864-11 | SHORT CHIP | | | |
| R3344 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R3347 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R3350 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R3351 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3359 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3360 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3362 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R3363 | 1-216-864-11 | SHORT CHIP | | | |
| R3367 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3368 | 1-216-864-11 | SHORT CHIP | | | |
| R3369 | 1-216-864-11 | SHORT CHIP | | | |
| R3370 | 1-216-864-11 | SHORT CHIP | | | |
| R3371 | 1-216-864-11 | SHORT CHIP | | | |
| R3374 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R3375 | 1-543-949-22 | FERRITE | 0µH | | |
| R3376 | 1-543-949-22 | FERRITE | 0µH | | |
| R3377 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R3378 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R3383 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3384 | 1-211-987-11 | METAL CHIP | 56 | 0.50% | 1/10W |
| R3385 | 1-211-985-11 | METAL CHIP | 47 | 0.50% | 1/10W |
| R3386 | 1-211-987-11 | METAL CHIP | 56 | 0.50% | 1/10W |
| R3387 | 1-211-985-11 | METAL CHIP | 47 | 0.50% | 1/10W |
| R3388 | 1-216-864-11 | SHORT CHIP | | | |
| R3389 | 1-216-864-11 | SHORT CHIP | | | |
| R3391 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R3392 | 1-216-818-11 | METAL CHIP | 560 | 5% | 1/10W |
| R3393 | 1-216-864-11 | SHORT CHIP | | | |
| R3395 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R3396 | 1-216-864-11 | SHORT CHIP | | | |
| R3401 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3402 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3403 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3404 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3405 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3406 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3407 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3408 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3409 | 1-216-864-11 | SHORT CHIP | | | |
| R3410 | 1-218-855-11 | METAL CHIP | 2.2K | 0.50% | 1/10W |
| R3411 | 1-218-859-11 | METAL CHIP | 3.3K | 0.50% | 1/10W |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R3413 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3414 | 1-211-987-11 | METAL CHIP | 56 | 0.50% | 1/10W |
| R3415 | 1-211-985-11 | METAL CHIP | 47 | 0.50% | 1/10W |
| R3416 | 1-216-864-11 | SHORT CHIP | | | |
| R3418 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3419 | 1-216-864-11 | SHORT CHIP | | | |
| R3420 | 1-216-864-11 | SHORT CHIP | | | |
| R3421 | 1-216-864-11 | SHORT CHIP | | | |
| R3422 | 1-216-864-11 | SHORT CHIP | | | |
| R3426 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3448 | 1-216-864-11 | SHORT CHIP | | | |
| R3450 | 1-211-969-11 | METAL CHIP | 10 | 0.50% | 1/10W |
| R3451 | 1-218-825-11 | METAL CHIP | 120 | 0.50% | 1/10W |
| R3452 | 1-218-833-11 | METAL CHIP | 270 | 0.50% | 1/10W |
| R3453 | 1-211-973-11 | METAL CHIP | 15 | 0.50% | 1/10W |
| R3454 | 1-218-825-11 | METAL CHIP | 120 | 0.50% | 1/10W |
| R3455 | 1-218-833-11 | METAL CHIP | 270 | 0.50% | 1/10W |
| R3456 | 1-211-977-11 | METAL CHIP | 22 | 0.50% | 1/10W |
| R3457 | 1-218-825-11 | METAL CHIP | 120 | 0.50% | 1/10W |
| R3458 | 1-218-833-11 | METAL CHIP | 270 | 0.50% | 1/10W |
| R3459 | 1-211-977-11 | METAL CHIP | 22 | 0.50% | 1/10W |
| R3460 | 1-218-825-11 | METAL CHIP | 120 | 0.50% | 1/10W |
| R3461 | 1-218-833-11 | METAL CHIP | 270 | 0.50% | 1/10W |
| R3462 | 1-218-825-11 | METAL CHIP | 120 | 0.50% | 1/10W |
| R3463 | 1-218-833-11 | METAL CHIP | 270 | 0.50% | 1/10W |
| R3464 | 1-218-825-11 | METAL CHIP | 120 | 0.50% | 1/10W |
| R3465 | 1-218-833-11 | METAL CHIP | 270 | 0.50% | 1/10W |
| R3466 | 1-218-833-11 | METAL CHIP | 270 | 0.50% | 1/10W |
| R3467 | 1-218-833-11 | METAL CHIP | 270 | 0.50% | 1/10W |
| R3468 | 1-218-833-11 | METAL CHIP | 270 | 0.50% | 1/10W |
| R3469 | 1-218-844-11 | METAL CHIP | 750 | 0.50% | 1/10W |
| R3471 | 1-216-864-11 | SHORT CHIP | | | |
| R3472 | 1-216-864-11 | SHORT CHIP | | | |
| R3473 | 1-216-864-11 | SHORT CHIP | | | |
| R3483 | 1-216-864-11 | SHORT CHIP | | | |
| R3484 | 1-216-864-11 | SHORT CHIP | | | |
| R3485 | 1-216-864-11 | SHORT CHIP | | | |
| R3486 | 1-216-864-11 | SHORT CHIP | | | |
| R3487 | 1-216-864-11 | SHORT CHIP | | | |
| R3488 | 1-216-864-11 | SHORT CHIP | | | |
| R3489 | 1-216-864-11 | SHORT CHIP | | | |
| R3490 | 1-216-864-11 | SHORT CHIP | | | |
| R3491 | 1-216-864-11 | SHORT CHIP | | | |

| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| | **RESISTOR BRIDGE** | | |
| RB3101 | 1-236-908-11 | NETWORK RESISTOR(CHIP) | 10K |
| RB3102 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3103 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3104 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3105 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3106 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3107 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3108 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3109 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3110 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3111 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3112 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3113 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3114 | 1-236-908-11 | NETWORK RESISTOR(CHIP) | 10K |
| RB3115 | 1-236-908-11 | NETWORK RESISTOR(CHIP) | 10K |
| RB3116 | 1-236-908-11 | NETWORK RESISTOR(CHIP) | 10K |
| RB3117 | 1-236-908-11 | NETWORK RESISTOR(CHIP) | 10K |
| RB3201 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3202 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3203 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3204 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3205 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3206 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3207 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3208 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3209 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3210 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3303 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3304 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3305 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3306 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3309 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3310 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3311 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3312 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB3313 | 1-233-813-11 | RES, NETWORK 150 | (3216) |
| RB3314 | 1-233-813-11 | RES, NETWORK 150 | (3216) |
| RB3315 | 1-233-813-11 | RES, NETWORK 150 | (3216) |
| RB3316 | 1-233-813-11 | RES, NETWORK 150 | (3216) |
| RB3318 | 1-233-813-11 | RES, NETWORK 150 | (3216) |
| RB3319 | 1-233-813-11 | RES, NETWORK 150 | (3216) |

BM P

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| | **CRYSTAL** | | | | |
| X3101 | 1-813-373-11 | OSCILLATOR, CRYSTAL | | | |
| X3301 | 1-781-887-21 | VIBRATOR, CRYSTAL | | | |

P

**Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.**
**Data is provided for reference only.**

| | | | | | |
|---|---|---|---|---|---|
| * | **A-1068-754-A** | **P BOARD, COMPLETE** | | | |
| | 4-382-854-01 | SCREW (M3X8), P, SW (+) | | | |
| | 7-685-872-09 | SCREW 3X8 (S) | | | |
| | **CAPACITOR** | | | | |
| C9507 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C9508 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9509 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C9510 | 1-164-230-11 | CERAMIC CHIP | 220pF | 5% | 50V |
| C9511 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C9513 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C9514 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9515 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9516 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C9517 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9519 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9521 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| C9523 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| C9524 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9525 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9526 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9527 | 1-164-505-11 | CERAMIC CHIP | 2.2µF | | 16V |
| C9528 | 1-126-246-11 | ELECT CHIP | 220µF | 20% | 4V |
| C9529 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C9530 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9531 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9532 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9533 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9534 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9535 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9537 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C9538 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| C9540 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9541 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| C9542 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9543 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C9545 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C9546 | 1-164-230-11 | CERAMIC CHIP | 220pF | 5% | 50V |
| C9547 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C9549 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9550 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9551 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9552 | 1-126-246-11 | ELECT CHIP | 220µF | 20% | 4V |
| C9553 | 1-162-966-11 | CERAMIC CHIP | 0.0022µF | 10% | 50V |
| C9554 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9555 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9557 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9558 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C9559 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9560 | 1-126-246-11 | ELECT CHIP | 220µF | 20% | 4V |
| C9561 | 1-100-756-91 | CERAMIC CHIP | 0.047µF | | 50V |
| C9562 | 1-127-692-11 | CERAMIC CHIP | 10µF | 10% | 16V |
| C9563 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9571 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9575 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C9576 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9578 | 1-162-916-11 | CERAMIC CHIP | 12pF | 5% | 50V |
| C9579 | 1-162-916-11 | CERAMIC CHIP | 12pF | 5% | 50V |
| C9583 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C9584 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9585 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9586 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9587 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9588 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9589 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9623 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9824 | 1-162-919-11 | CERAMIC CHIP | 22pF | 5% | 50V |
| C9825 | 1-162-919-11 | CERAMIC CHIP | 22pF | 5% | 50V |
| C9826 | 1-162-919-11 | CERAMIC CHIP | 22pF | 5% | 50V |
| C9828 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9830 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9831 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9832 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C9833 | 1-100-566-91 | CERAMIC CHIP | 0.1µF | 10% | 25V |
| C9835 | 1-100-588-21 | ELECT CHIP | 1000µF | 20% | 6.3V |
| C9836 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9839 | 1-126-394-11 | ELECT CHIP | 10µF | 20% | 16V |
| C9841 | 1-100-118-21 | ELECT CHIP | 82µF | 20% | 16V |

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| | REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|---|
| | C9842 | 1-137-897-21 | ELECT CHIP | 150µF | 20% | 4V |
| | C9843 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| | | **CONNECTOR** | | | | |
| * | CN9500 | 1-818-400-11 | HDMI CONNECTOR | | | |
| | CN9504 | 1-564-593-11 | PLUG, CONNECTOR | 14P | | |
| | | **DIODE** | | | | |
| | D9500 | 8-719-210-39 | DIODE | EC10QS-04 | | |
| | D9501 | 6-500-294-01 | DIODE | PTZ-TE25-3.9B | | |
| | D9502 | 8-719-977-28 | DIODE | DTZ10B | | |
| | D9503 | 8-719-977-28 | DIODE | DTZ10B | | |
| | D9506 | 8-719-404-50 | DIODE | MA111-TX | | |
| | D9507 | 8-719-404-50 | DIODE | MA111-TX | | |
| | | **FERRITE BEAD** | | | | |
| | FB9504 | 1-414-235-22 | FERRITE | 0µH | | |
| | FB9505 | 1-414-235-22 | FERRITE | 0µH | | |
| | FB9506 | 1-414-235-22 | FERRITE | 0µH | | |
| | FB9507 | 1-414-235-22 | FERRITE | 0µH | | |
| | FB9508 | 1-414-235-22 | FERRITE | 0µH | | |
| | FB9509 | 1-414-235-22 | FERRITE | 0µH | | |
| | FB9510 | 1-414-235-22 | FERRITE | 0µH | | |
| | FB9512 | 1-414-235-22 | FERRITE | 0µH | | |
| | | **FILTER** | | | | |
| * | FL9501 | 1-813-308-11 | INDUCTOR | 0µH | | |
| * | FL9504 | 1-813-308-11 | INDUCTOR | 0µH | | |
| * | FL9505 | 1-813-308-11 | INDUCTOR | 0µH | | |
| * | FL9506 | 1-813-308-11 | INDUCTOR | 0µH | | |
| | | **IC** | | | | |
| | IC9500 | 6-706-257-01 | IC | FMS6418AM16X | | |
| | IC9502 | 6-704-819-01 | IC | CS4335-KSZR | | |
| | IC9503 | 6-704-407-01 | IC | PQ1CZ41H2ZPH | | |
| | IC9504 | 6-704-001-01 | IC | BR24L02F-WE2 | | |
| | IC9505 | 6-704-499-01 | IC | SII9993CTG100 | | |
| | IC9506 | 6-703-042-01 | IC | CD4052BNSR | | |
| | IC9509 | 6-550-014-01 | TRANSISTOR | SSM6N15FU(TE85R) | | |
| | IC9514 | 8-759-331-71 | IC | NJM4558E(TE2) | | |
| | IC9517 | 6-804-248-01 | IC | HD64F3694FXV-DA4 | | |
| | IC9521 | 8-759-642-22 | IC | UPC29M05T-E2 | | |

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| | **JACK** | | | | |
| J9503 | 1-794-623-11 | JACK, PIN | 2P | | |
| | **COIL** | | | | |
| L9501 | 1-416-948-21 | INDUCTOR | 10µH | | |
| L9502 | 1-400-303-21 | INDUCTOR | 68µH | | |
| | **IC LINK** | | | | |
| PS9500 | 1-576-415-21 | FUSE | 2A | 32V | |
| | **TRANSISTOR** | | | | |
| Q9501 | 8-729-024-88 | TRANSISTOR | MUN2212T1 | | |
| Q9502 | 8-729-421-22 | TRANSISTOR | UN2211 | | |
| Q9503 | 8-729-027-62 | TRANSISTOR | DTC144WKA-T146 | | |
| Q9506 | 8-729-024-88 | TRANSISTOR | MUN2212T1 | | |
| Q9511 | 8-729-421-22 | TRANSISTOR | UN2211 | | |
| Q9514 | 8-729-027-62 | TRANSISTOR | DTC144WKA-T146 | | |
| Q9516 | 8-729-421-22 | TRANSISTOR | UN2211 | | |
| Q9517 | 8-729-421-22 | TRANSISTOR | UN2211 | | |
| | **RESISTOR** | | | | |
| R9501 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9502 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9505 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/10W |
| R9507 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R9508 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R9509 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R9510 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9511 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |
| R9512 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9513 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9514 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9515 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9516 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9517 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9518 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R9519 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |
| R9520 | 1-216-816-11 | METAL CHIP | 390 | 5% | 1/10W |
| R9526 | 1-218-716-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R9528 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R9529 | 1-216-850-11 | METAL CHIP | 270K | 5% | 1/10W |
| R9530 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R9531 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R9532 | 1-218-694-11 | METAL CHIP | 1.2K | 0.50% | 1/10W |
| R9533 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| R9534 | 1-218-686-11 | METAL CHIP | 560 | 0.50% | 1/10W |
| R9535 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R9538 | 1-218-823-11 | METAL CHIP | 100 | 0.50% | 1/10W |
| R9539 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R9540 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R9541 | 1-218-694-11 | METAL CHIP | 1.2K | 0.50% | 1/10W |
| R9542 | 1-216-850-11 | METAL CHIP | 270K | 5% | 1/10W |
| R9543 | 1-218-686-11 | METAL CHIP | 560 | 0.50% | 1/10W |
| R9544 | 1-218-706-11 | METAL CHIP | 3.9K | 0.50% | 1/10W |
| R9546 | 1-218-706-11 | METAL CHIP | 3.9K | 0.50% | 1/10W |
| R9547 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R9548 | 1-218-716-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R9552 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R9555 | 1-218-706-11 | METAL CHIP | 3.9K | 0.50% | 1/10W |
| R9556 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R9557 | 1-218-706-11 | METAL CHIP | 3.9K | 0.50% | 1/10W |
| R9558 | 1-216-829-11 | METAL CHIP | 4.7K | 5% | 1/10W |
| R9559 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9560 | 1-216-864-11 | SHORT CHIP | | | |
| R9562 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9563 | 1-218-706-11 | METAL CHIP | 3.9K | 0.50% | 1/10W |
| R9564 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R9565 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R9566 | 1-216-864-11 | SHORT CHIP | | | |
| R9569 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R9572 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R9574 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9575 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9576 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R9577 | 1-216-857-11 | METAL CHIP | 1M | 5% | 1/10W |
| R9580 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9581 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9582 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R9584 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R9585 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9586 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9592 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9595 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R9597 | 1-216-803-11 | METAL CHIP | 33 | 5% | 1/10W |

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R9602 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9606 | 1-216-864-11 | SHORT CHIP | | | |
| R9612 | 1-216-864-11 | SHORT CHIP | | | |
| R9614 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9615 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9616 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9623 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R9624 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R9625 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R9626 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R9627 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R9850 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R9851 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R9852 | 1-218-644-11 | METAL CHIP | 10 | 0.50% | 1/10W |
| R9853 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R9854 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/10W |
| R9860 | 1-218-706-11 | METAL CHIP | 3.9K | 0.50% | 1/10W |
| R9864 | 1-218-701-11 | METAL CHIP | 2.4K | 0.50% | 1/10W |
| R9866 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R9867 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R9868 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R9869 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R9882 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9883 | 1-216-838-11 | METAL CHIP | 27K | 5% | 1/10W |
| R9884 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9885 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9886 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9887 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9888 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R9890 | 1-218-665-11 | METAL CHIP | 75 | 0.50% | 1/10W |
| R9891 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |

**RESISTOR BRIDGE**

| | | | |
|---|---|---|---|
| RB9500 | 1-234-524-21 | RES, CHIP NETWORK 33 | (3216) |
| RB9510 | 1-233-576-11 | RES, CHIP NETWORK 100 | (3216) |
| RB9511 | 1-233-574-11 | RES, CHIP NETWORK 10 | (3216) |
| RB9512 | 1-233-574-11 | RES, CHIP NETWORK 10 | (3216) |
| RB9516 | 1-236-908-11 | NETWORK RESISTOR(CHIP) | 10K |
| RB9517 | 1-236-908-11 | NETWORK RESISTOR(CHIP) | 10K |

**VARISTOR**

| | | | |
|---|---|---|---|
| VD9500 | 6-500-701-01 | DIODE | PGB0010603NR |
| VD9501 | 6-500-701-01 | DIODE | PGB0010603NR |
| VD9502 | 6-500-701-01 | DIODE | PGB0010603NR |
| VD9503 | 6-500-701-01 | DIODE | PGB0010603NR |

# P HA1 HB1

| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| VD9504 | 6-500-701-01 | DIODE | PGB0010603NR |
| VD9505 | 6-500-701-01 | DIODE | PGB0010603NR |
| VD9506 | 6-500-701-01 | DIODE | PGB0010603NR |
| VD9507 | 6-500-701-01 | DIODE | PGB0010603NR |
| VD9518 | 6-500-701-01 | DIODE | PGB0010603NR |
| VD9519 | 6-500-701-01 | DIODE | PGB0010603NR |
| | **CRYSTAL** | | |
| X9501 | 1-767-984-21 | VIBRATOR, CRYSTAL | |

## HA1

| | | | | | | |
|---|---|---|---|---|---|---|
| * | | **A-1054-152-A** | **HA1 BOARD, MOUNTED** | | | |
| | | **CAPACITOR** | | | | |
| | C1201 | 1-126-157-11 | ELECT | 10µF | 20% | 16V |
| | | **CONNECTOR** | | | | |
| * | CN1201 | 1-564-524-11 | PLUG, CONNECTOR | 9P | | |
| | | **DIODE** | | | | |
| | D1201 | 8-719-053-43 | DIODE | SLR-325VCT31 | | |
| | D1202 | 8-719-053-43 | DIODE | SLR-325VCT31 | | |
| | D1203 | 8-719-977-28 | DIODE | DTZ10B | | |
| | | **IC** | | | | |
| | IC1201 | 8-742-211-20 | HYB IC | SBX3071-71 | | |
| | | **RESISTOR** | | | | |
| | R1201 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| | R1202 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| | R1203 | 1-216-819-11 | METAL CHIP | 680 | 5% | 1/10W |
| | R1204 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| | R1205 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/10W |
| | R1206 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| | R1207 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| | R1208 | 1-216-797-11 | METAL CHIP | 10 | 5% | 1/10W |
| | R1209 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |

| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| | **SWITCH** | | |
| S1201 | 1-572-198-11 | SWITCH, KEYBOARD | |
| S1202 | 1-572-198-11 | SWITCH, KEYBOARD | |
| S1203 | 1-572-198-11 | SWITCH, KEYBOARD | |
| S1204 | 1-572-198-11 | SWITCH, KEYBOARD | |
| S1205 | 1-572-198-11 | SWITCH, KEYBOARD | |
| S1206 | 1-572-198-11 | SWITCH, KEYBOARD | |
| S1207 | 1-572-198-11 | SWITCH, KEYBOARD | |

## HB1

| | | | | | | |
|---|---|---|---|---|---|---|
| * | | **A-1054-154-A** | **HB1 BOARD, MOUNTED** (KP-51WS520/57WS520 ONLY) | | | |
| | | **CAPACITOR** | | | | |
| | C1100 | 1-126-960-11 | ELECT | 1µF | 20% | 50V |
| | C1101 | 1-126-960-11 | ELECT | 1µF | 20% | 50V |
| | | **CONNECTOR** | | | | |
| * | CN1101 | 1-564-526-11 | PLUG, CONNECTOR | 11P | | |
| | | **DIODE** | | | | |
| | D1100 | 8-719-977-28 | DIODE | DTZ10B | | |
| | D1101 | 8-719-977-28 | DIODE | DTZ10B | | |
| | D1103 | 8-719-977-28 | DIODE | DTZ10B | | |
| | | **JACK** | | | | |
| | J1101 | 1-770-361-11 | TERMINAL BLOCK, S | | | |
| | | **RESISTOR** | | | | |
| | R1100 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| | R1101 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| | R1102 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| | R1103 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| | R1106 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| | R1107 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |

# HB2 SR BH

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R1103 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R1106 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1107 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |

## HB2

* **A-1054-799-A HB2 BOARD, MOUNTED**
(KP-46WT520 ONLY)

**CAPACITOR**

| | | | | | |
|---|---|---|---|---|---|
| C1150 | 1-126-960-11 | ELECT | 1µF | 20% | 50V |
| C1151 | 1-126-960-11 | ELECT | 1µF | 20% | 50V |

**CONNECTOR**

| | | | | | |
|---|---|---|---|---|---|
| * CN1151 | 1-564-526-11 | PLUG, CONNECTOR | | | 11P |

**DIODE**

| | | | | | |
|---|---|---|---|---|---|
| D1150 | 8-719-977-28 | DIODE | DTZ10B | | |
| D1151 | 8-719-977-28 | DIODE | DTZ10B | | |
| D1153 | 8-719-977-28 | DIODE | DTZ10B | | |

**JACK**

| | | | | | |
|---|---|---|---|---|---|
| J1151 | 1-750-515-11 | TERMINAL BLOCK, S | | | 3P |

**RESISTOR**

| | | | | | |
|---|---|---|---|---|---|
| R1150 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R1151 | 1-216-853-11 | METAL CHIP | 470K | 5% | 1/10W |
| R1152 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R1153 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |
| R1156 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R1157 | 1-218-285-11 | METAL CHIP | 75 | 5% | 1/10W |

| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|

## SR

**Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.**
**Data is provided for reference only.**

* **A-1405-083-A SR BOARD, MOUNTED**

**CONNECTOR**

| | | | | |
|---|---|---|---|---|
| * CN9901 | 1-564-506-11 | PLUG, CONNECTOR | | 3P |

**DIODE**

| | | | |
|---|---|---|---|
| D9901 | 8-719-036-94 | DIODE | RD5.6SB-T1 |

**SWITCH**

| | | |
|---|---|---|
| SB9901 | 1-477-983-21 | PHOTO SENSOR |

## BH

**Due to the complexity of this board, performing component level field repairs is not recommended. If service is required, complete board replacement is the preferred repair method.**
**Data is provided for reference only.**

**BH BOARD, MOUNTED**

If the BH board needs to be replaced use an A Board part number to order the replacement kit.

**CAPACITOR**

| | | | | | |
|---|---|---|---|---|---|
| C3032 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3040 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3101 | 1-162-964-11 | CERAMIC CHIP | 0.001µF | 10% | 50V |
| C3102 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3104 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3105 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3106 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3107 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3108 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3109 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |

BH

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| C3110 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3111 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3112 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3113 | 1-137-710-11 | CERAMIC CHIP | 10µF | 20% | 6.3V |
| C3114 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3115 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3116 | 1-126-205-11 | ELECT CHIP | 47µF | 20% | 6.3V |
| C3117 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3118 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3119 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3120 | 1-100-507-91 | CERAMIC CHIP | 4.7µF | 20% | 6.3V |
| C3121 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3122 | 1-100-507-91 | CERAMIC CHIP | 4.7µF | 20% | 6.3V |
| C3123 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3124 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3125 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3126 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3127 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3128 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3129 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3130 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3131 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3132 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3133 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3134 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3135 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3136 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3137 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3138 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3139 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3140 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3141 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3142 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3143 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3144 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3145 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3146 | 1-137-710-11 | CERAMIC CHIP | 10µF | 20% | 6.3V |
| C3147 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3148 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3149 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3150 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3151 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3152 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3153 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3154 | 1-137-710-11 | CERAMIC CHIP | 10µF | 20% | 6.3V |
| C3155 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3156 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3157 | 1-137-710-11 | CERAMIC CHIP | 10µF | 20% | 6.3V |
| C3158 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3160 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3163 | 1-100-507-91 | CERAMIC CHIP | 4.7µF | 20% | 6.3V |
| C3165 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3167 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3169 | 1-126-205-11 | ELECT CHIP | 47µF | 20% | 6.3V |
| C3170 | 1-126-205-11 | ELECT CHIP | 47µF | 20% | 6.3V |
| C3171 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3173 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3178 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3179 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3184 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C3185 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C3188 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C3189 | 1-162-927-11 | CERAMIC CHIP | 100pF | 5% | 50V |
| C3207 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3208 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3209 | 1-126-205-11 | ELECT CHIP | 47µF | 20% | 6.3V |
| C3301 | 1-162-923-11 | CERAMIC CHIP | 47pF | 5% | 50V |
| C3302 | 1-162-923-11 | CERAMIC CHIP | 47pF | 5% | 50V |
| C3305 | 1-137-710-11 | CERAMIC CHIP | 10µF | 20% | 6.3V |
| C3306 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3307 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3311 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3312 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3313 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3314 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3315 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3316 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3317 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3318 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3320 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3321 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3324 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3325 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3328 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3329 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| C3330 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3331 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3332 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3333 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3334 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3335 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3337 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3338 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3340 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3341 | 1-165-884-91 | CERAMIC CHIP | 2.2µF | 10% | 6.3V |
| C3342 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3343 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3344 | 1-162-917-11 | CERAMIC CHIP | 15pF | 5% | 50V |
| C3345 | 1-162-917-11 | CERAMIC CHIP | 15pF | 5% | 50V |
| C3346 | 1-165-884-91 | CERAMIC CHIP | 2.2µF | 10% | 6.3V |
| C3347 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3348 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3349 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3350 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3351 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3352 | 1-165-884-91 | CERAMIC CHIP | 2.2µF | 10% | 6.3V |
| C3353 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3354 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3355 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3356 | 1-100-507-91 | CERAMIC CHIP | 4.7µF | 20% | 6.3V |
| C3357 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3358 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3359 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3360 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3361 | 1-100-507-91 | CERAMIC CHIP | 4.7µF | 20% | 6.3V |
| C3362 | 1-125-837-91 | CERAMIC CHIP | 1µF | 10% | 6.3V |
| C3363 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3365 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3366 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3367 | 1-164-230-11 | CERAMIC CHIP | 220pF | 5% | 50V |
| C3368 | 1-100-507-91 | CERAMIC CHIP | 4.7µF | 20% | 6.3V |
| C3370 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3371 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3372 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3373 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3374 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3375 | 1-100-507-91 | CERAMIC CHIP | 4.7µF | 20% | 6.3V |
| C3376 | 1-126-205-11 | ELECT CHIP | 47µF | 20% | 6.3V |
| C3377 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3378 | 1-126-205-11 | ELECT CHIP | 47µF | 20% | 6.3V |
| C3379 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3380 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3381 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3382 | 1-100-507-91 | CERAMIC CHIP | 4.7µF | 20% | 6.3V |
| C3383 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3384 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3385 | 1-126-205-11 | ELECT CHIP | 47µF | 20% | 6.3V |
| C3386 | 1-126-205-11 | ELECT CHIP | 47µF | 20% | 6.3V |
| C3387 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3388 | 1-100-507-91 | CERAMIC CHIP | 4.7µF | 20% | 6.3V |
| C3389 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3390 | 1-126-205-11 | ELECT CHIP | 47µF | 20% | 6.3V |
| C3391 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3392 | 1-137-710-11 | CERAMIC CHIP | 10µF | 20% | 6.3V |
| C3393 | 1-137-710-11 | CERAMIC CHIP | 10µF | 20% | 6.3V |
| C3394 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3395 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3397 | 1-100-507-91 | CERAMIC CHIP | 4.7µF | 20% | 6.3V |
| C3398 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3399 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3400 | 1-164-230-11 | CERAMIC CHIP | 220pF | 5% | 50V |
| C3402 | 1-107-826-11 | CERAMIC CHIP | 0.1µF | 10% | 16V |
| C3403 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |
| C3404 | 1-162-970-11 | CERAMIC CHIP | 0.01µF | 10% | 25V |

**CONNECTOR**

| | | | | | |
|---|---|---|---|---|---|
| * | CN3001 | 1-816-448-11 | CONNECTOR, BOARD TO BOARD | | 50P |

**FERRITE BEAD**

| | | | |
|---|---|---|---|
| FB3101 | 1-414-228-11 | FERRITE | 0µH |
| FB3102 | 1-400-180-21 | INDUCTOR | 0µH |
| FB3103 | 1-400-180-21 | INDUCTOR | 0µH |
| FB3301 | 1-400-180-21 | INDUCTOR | 0µH |
| FB3302 | 1-400-180-21 | INDUCTOR | 0µH |

**FILTER**

| | | | |
|---|---|---|---|
| FL3001 | 1-234-177-21 | FERRITE | 0µH |
| FL3100 | 1-234-677-21 | FILTER, EMI | |
| FL3101 | 1-234-560-21 | FILTER, LOW PASS | |

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| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| FL3102 | 1-234-559-21 | FILTER, LOW PASS | |
| FL3103 | 1-234-559-21 | FILTER, LOW PASS | |
| FL3105 | 1-234-177-21 | FERRITE | 0µH |
| FL3301 | 1-234-854-21 | FILTER, LOW PASS (SMD) | |
| | **IC** | | |
| IC3101 | 8-752-425-02 | IC | CXD3802BQ |
| IC3102 | 6-705-983-01 | IC | IS42S32200B-6TL-TR |
| IC3103 | 6-706-706-01 | IC | SN10503PWPR |
| IC3105 | 8-759-833-72 | IC | NJM2870F25-TE2 |
| IC3106 | 6-705-403-01 | IC | PQ070XZ01ZPH |
| IC3205 | 6-705-403-01 | IC | PQ070XZ01ZPH |
| IC3302 | 6-705-983-01 | IC | IS42S32200B-6TL-TR |
| IC3303 | 8-759-649-46 | IC | SN74AHC1G08DCKR |
| IC3306 | 8-759-649-46 | IC | SN74AHC1G08DCKR |
| IC3310 | 8-759-833-72 | IC | NJM2870F25-TE2 |
| IC3311 | 8-759-833-72 | IC | NJM2870F25-TE2 |
| | **COIL** | | |
| L3101 | 1-469-555-21 | INDUCTOR | 10µH |
| L3102 | 1-469-555-21 | INDUCTOR | 10µH |
| L3105 | 1-469-549-21 | INDUCTOR | 1µH |
| L3307 | 1-469-555-21 | INDUCTOR | 10µH |
| L3308 | 1-469-555-21 | INDUCTOR | 10µH |
| L3309 | 1-469-555-21 | INDUCTOR | 10µH |
| L3310 | 1-469-555-21 | INDUCTOR | 10µH |
| L3311 | 1-469-555-21 | INDUCTOR | 10µH |
| L3315 | 1-469-549-21 | INDUCTOR | 1µH |
| L3316 | 1-469-555-21 | INDUCTOR | 10µH |
| L3317 | 1-412-026-11 | INDUCTOR | 1µH |
| | **TRANSISTOR** | | |
| Q3101 | 8-729-102-07 | TRANSISTOR | 2SC2223-F13 |
| Q3102 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 |
| Q3103 | 8-729-102-07 | TRANSISTOR | 2SC2223-F13 |
| Q3104 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 |
| Q3105 | 8-729-102-07 | TRANSISTOR | 2SC2223-F13 |
| Q3106 | 8-729-122-63 | TRANSISTOR | 2SA1226-E4 |
| Q3113 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 |
| Q3306 | 8-729-028-28 | TRANSISTOR | 2SK2036(TE85L) |
| Q3307 | 8-729-028-28 | TRANSISTOR | 2SK2036(TE85L) |
| Q3308 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 |
| Q3310 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 |
| Q3312 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 |
| Q3313 | 8-729-600-22 | TRANSISTOR | 2SA1235-F |
| Q3314 | 8-729-120-28 | TRANSISTOR | 2SC1623-L5L6 |
| | **RESISTOR** | | |
| R3024 | 1-216-827-11 | METAL CHIP | 3.3K 5% 1/10W |
| R3035 | 1-543-949-22 | FERRITE | 0µH |
| R3036 | 1-543-949-22 | FERRITE | 0µH |
| R3037 | 1-543-949-22 | FERRITE | 0µH |
| R3041 | 1-543-949-22 | FERRITE | 0µH |
| R3042 | 1-543-949-22 | FERRITE | 0µH |
| R3049 | 1-543-949-22 | FERRITE | 0µH |
| R3055 | 1-543-949-22 | FERRITE | 0µH |
| R3056 | 1-543-949-22 | FERRITE | 0µH |
| R3101 | 1-216-803-11 | METAL CHIP | 33 5% 1/10W |
| R3102 | 1-218-847-11 | METAL CHIP | 1K 0.50% 1/10W |
| R3103 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W |
| R3104 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3105 | 1-218-830-11 | METAL CHIP | 200 0.50% 1/10W |
| R3106 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R3107 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W |
| R3108 | 1-218-830-11 | METAL CHIP | 200 0.50% 1/10W |
| R3109 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W |
| R3110 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3111 | 1-218-834-11 | METAL CHIP | 300 0.50% 1/10W |
| R3112 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R3113 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W |
| R3114 | 1-218-834-11 | METAL CHIP | 300 0.50% 1/10W |
| R3115 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R3116 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R3117 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W |
| R3118 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R3119 | 1-216-805-11 | METAL CHIP | 47 5% 1/10W |
| R3120 | 1-218-834-11 | METAL CHIP | 300 0.50% 1/10W |
| R3121 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |
| R3122 | 1-216-819-11 | METAL CHIP | 680 5% 1/10W |
| R3123 | 1-218-834-11 | METAL CHIP | 300 0.50% 1/10W |
| R3124 | 1-216-809-11 | METAL CHIP | 100 5% 1/10W |

BH

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R3125 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R3129 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3130 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3133 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3134 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3135 | 1-543-949-22 | FERRITE | 0µH | | |
| R3136 | 1-543-949-22 | FERRITE | 0µH | | |
| R3141 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R3142 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R3143 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R3144 | 1-218-849-11 | METAL CHIP | 1.2K | 0.50% | 1/10W |
| R3145 | 1-218-849-11 | METAL CHIP | 1.2K | 0.50% | 1/10W |
| R3146 | 1-218-849-11 | METAL CHIP | 1.2K | 0.50% | 1/10W |
| R3147 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R3148 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R3149 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R3163 | 1-218-851-11 | METAL CHIP | 1.5K | 0.50% | 1/10W |
| R3164 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R3170 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3172 | 1-216-864-11 | SHORT CHIP | | | |
| R3176 | 1-216-864-11 | SHORT CHIP | | | |
| R3181 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3182 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3186 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3190 | 1-216-864-11 | SHORT CHIP | | | |
| R3199 | 1-216-855-11 | METAL CHIP | 680K | 5% | 1/10W |
| R3280 | 1-218-838-11 | METAL CHIP | 430 | 0.50% | 1/10W |
| R3281 | 1-218-847-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R3282 | 1-218-873-11 | METAL CHIP | 12K | 0.50% | 1/10W |
| R3301 | 1-216-864-11 | SHORT CHIP | | | |
| R3322 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3323 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3324 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3326 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3327 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3333 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3334 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3351 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3352 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3355 | 1-218-863-11 | METAL CHIP | 4.7K | 0.50% | 1/10W |
| R3356 | 1-216-821-11 | METAL CHIP | 1K | 5% | 1/10W |
| R3357 | 1-218-854-11 | METAL CHIP | 2K | 0.50% | 1/10W |

| REF. NO. | PART NO. | DESCRIPTION | VALUES | | |
|---|---|---|---|---|---|
| R3358 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3359 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3360 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3361 | 1-216-864-11 | SHORT CHIP | | | |
| R3362 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R3363 | 1-218-854-11 | METAL CHIP | 2K | 0.50% | 1/10W |
| R3364 | 1-218-826-11 | METAL CHIP | 130 | 0.50% | 1/10W |
| R3365 | 1-218-826-11 | METAL CHIP | 130 | 0.50% | 1/10W |
| R3366 | 1-218-826-11 | METAL CHIP | 130 | 0.50% | 1/10W |
| R3367 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3368 | 1-218-829-11 | METAL CHIP | 180 | 0.50% | 1/10W |
| R3369 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R3370 | 1-216-851-11 | METAL CHIP | 330K | 5% | 1/10W |
| R3372 | 1-218-849-11 | METAL CHIP | 1.2K | 0.50% | 1/10W |
| R3373 | 1-218-859-11 | METAL CHIP | 3.3K | 0.50% | 1/10W |
| R3374 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R3375 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3376 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3377 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3378 | 1-216-809-11 | METAL CHIP | 100 | 5% | 1/10W |
| R3383 | 1-216-805-11 | METAL CHIP | 47 | 5% | 1/10W |
| R3392 | 1-216-864-11 | SHORT CHIP | | | |
| R3393 | 1-216-864-11 | SHORT CHIP | | | |
| R3395 | 1-216-817-11 | METAL CHIP | 470 | 5% | 1/10W |
| R3396 | 1-216-864-11 | SHORT CHIP | | | |
| R3402 | 1-216-864-11 | SHORT CHIP | | | |
| R3403 | 1-216-813-11 | METAL CHIP | 220 | 5% | 1/10W |
| R3404 | 1-216-837-11 | METAL CHIP | 22K | 5% | 1/10W |
| R3406 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/10W |
| R3407 | 1-216-864-11 | SHORT CHIP | | | |
| R3409 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3416 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |
| R3419 | 1-216-801-11 | METAL CHIP | 22 | 5% | 1/10W |

**RESISTOR BRIDGE**

| | | | | |
|---|---|---|---|---|
| RB3102 | 1-233-576-11 | RES, CHIP NETWORK | 100 | (3216) |
| RB3103 | 1-233-576-11 | RES, CHIP NETWORK | 100 | (3216) |
| RB3104 | 1-233-576-11 | RES, CHIP NETWORK | 100 | (3216) |
| RB3105 | 1-233-576-11 | RES, CHIP NETWORK | 100 | (3216) |
| RB3106 | 1-233-576-11 | RES, CHIP NETWORK | 100 | (3216) |
| RB3107 | 1-233-576-11 | RES, CHIP NETWORK | 100 | (3216) |
| RB3108 | 1-233-576-11 | RES, CHIP NETWORK | 100 | (3216) |
| RB3109 | 1-233-576-11 | RES, CHIP NETWORK | 100 | (3216) |

| REF. NO. | PART NO. | DESCRIPTION | VALUES |
|---|---|---|---|
| RB3110 | 1-233-576-11 | RES, CHIP NETWORK | 100 (3216) |
| RB3111 | 1-233-576-11 | RES, CHIP NETWORK | 100 (3216) |
| RB3112 | 1-233-576-11 | RES, CHIP NETWORK | 100 (3216) |
| RB3113 | 1-233-576-11 | RES, CHIP NETWORK | 100 (3216) |
| RB3114 | 1-236-908-11 | NETWORK RESISTOR(CHIP) | 10K |
| RB3115 | 1-236-908-11 | NETWORK RESISTOR(CHIP) | 10K |
| RB3116 | 1-236-908-11 | NETWORK RESISTOR(CHIP) | 10K |
| RB3117 | 1-236-908-11 | NETWORK RESISTOR(CHIP) | 10K |
| RB3303 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3304 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3305 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3306 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3309 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3310 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3311 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |
| RB3312 | 1-239-409-11 | NETWORK RESISTOR(CHIP) | 47 |

**CRYSTAL**

| | | |
|---|---|---|
| X3101 | 1-813-373-11 | OSCILLATOR, CRYSTAL |
| X3301 | 1-813-114-21 | VIBRATOR, CRYSTAL |

**MISCELLANEOUS**

| | | |
|---|---|---|
| | 7-600-001-97 | TAPE, ACETATE (P2412) 25X30M |
| | 7-600-003-52 | TAPE, ACETATE (2142) 46X30M<br>(KP-51WS520/57WS520 ONLY) |
| | 7-600-005-96 | BLACK ACETATE (NO.570F) 46X50M<br>(KP-51WS520/57WS520 ONLY) |
| | 7-600-019-13 | TAPE, ACETATE (P2412HD) 25MMX30MM |

**ACCESSORIES AND PACKING**

| | | |
|---|---|---|
| * | 4-091-919-11 | BAG, PROTECTION<br>(KP-46WT520 ONLY) |
| | 4-041-426-01 | BAG, PROTECTION<br>(KP-51WS520 ONLY) |
| * | 4-076-420-01 | BAG, PROTECTION<br>(KP-57WS520 ONLY) |
| * | 2-159-715-01 | CARTON, INDIVIDUAL<br>(KP-46WT520 ONLY) |
| * | 2-021-821-01 | CARTON, INDIVIDUAL<br>(KP-51WS520 ONLY) |
| * | 2-159-716-01 | CARTON, INDIVIDUAL<br>(KP-57WS520 ONLY) |
| * | 2-021-820-01 | CUSHION, LOWER<br>(KP-46WT520 ONLY) |
| * | 2-021-823-01 | CUSHION, LOWER<br>(KP-51WS520 ONLY) |
| * | 2-021-825-01 | CUSHION, LOWER<br>(KP-57WS520 ONLY) |
| * | 4-091-086-01 | CUSHION, UPPER<br>(KP-46WT520 ONLY) |
| * | 2-021-824-01 | CUSHION, UPPER<br>(KP-51WS520 ONLY) |
| * | 4-094-656-01 | CUSHION, UPPER<br>(KP-57WS520 ONLY) |
| | 2-022-745-11 | MANUAL, INSTRUCTION |
| | 2-022-745-21 | MANUAL, INSTRUCTION |
| | 2-022-745-31 | MANUAL, INSTRUCTION |
| * | 4-042-463-01 | SHEET, PROTECTION<br>(KP-51WS520/57WS520 ONLY) |
| * | 4-096-700-01 | TRAY<br>(KP-46WT520 ONLY) |
| * | 4-094-659-01 | TRAY<br>(KP-57WS520 ONLY) |

**REMOTE COMMANDER**

| | |
|---|---|
| 1-478-780-11 | REMOTE COMMANDER (RM-Y916) |
| 3-072-138-01 | BATTERY COVER (for RM-Y916) |

**Sony Corporation**
**Sony Technology Center**
**Technical Services**
**Service Promotion Department**

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# SERVICE MANUAL AX-1X CHASSIS

***In an effort to reduce the size of this pdf file the tiled schematics are not attached to this Service Manual. To receive a complete set of the tiled schematics for this manual please submit a request to Service_Promotion@am.sony.com.***